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gcattgcagg	agtggtgagg	gacaaggaca	cggagcttgg	gattgctgac	gctgtcattg	900
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tgaccccagg	ggactacatg	gtgactgcca	gtgccgaggg	ctaccattca	gtgacacgga	1020
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ccaaacagag	gctgcgcgag	ctgctggcag	ctggggccaa	ggtgcccccg	gaccttcgca	1140
ggcgcttga	gcggctaagg	ggacagaagg	attgatacct	gcggtttaag	agccctaggg	1200
caggctggac	ctgtcaagac	gggaagggga	agagtagaga	gggagggaca	aagtgaggaa	1260
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<210> 18

<400> 20
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 ctgaacaggc cagcaggcaa cctgccatgg ggtcctgtct caagaaccgg tccttcttct 180
 ggatgactgg gctcctggta ttcacagcc tctcctcag tgagtggcag ggtccctggg 240
 aagggagggc aattggagag ggctgggcta gctgggctct gaccaacggg tgggctgttc 300
 aacttctgat gtctttgggc aacaacacag aaaaacactc tgttatgatt tacgaaan 358

<210> 21
 <211> 1926
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1689)
 <223> n equals a,t,g, or c

<400> 21
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 ctgagcagga ggaagcaggt ggtggccgcg gccttgaggc aggccctgca gctggatgga 120
 gacctgcagg aggatgagat cccagtggta gctattatgg cactggtgg tgggatccgg 180
 gcaatgactt ccctgtatgg gcagctggct ggccctgaagg agctgggcct cttggattgc 240
 ktctctaca tcaccggggc ctcgggctcc acctgggcct tggccaacct ttataaggac 300
 ccagagtggg ctcagaagga cctggcaggg ccactgagt tgctgaagac ccaggtgacc 360
 aagaacaagc tgggtgtgct ggccccagc cagctgcagc ggtaccggca ggagctggcc 420
 gagcgtgccc gcttgggcta cccaagctgc ttcaccaacc tgtggggcct catcaacgag 480
 gcgctgctgc atgatgagcc ccatgatcac aagctctcag atcaacggga ggccctgagt 540
 catggccaga accctctgcc catctactgt gccctcaaca ccaaagggca gagcctgacc 600
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 caggccacac ataatttctt gcgtggcctc catttccaca aagactactt tcagcatcct 1020
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 tcacccaaaa cccccggcc tgtgcctgtt ttccctctct cgtaccttg agtagttgga 1860
 gcacttgata catcacagac tcatacaaat gtgaggcgct gagaaaaaaaa aaaaaaaaaa 1920
 actcga 1926

<210> 22
 <211> 1224

<212> DNA
<213> Homo sapiens

<400> 22

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gctgttcgtg	gcgctaccgc	cctccggctg	gctgacgacg	ggcgcccccg	agccgccgcc	180
gctgtccgga	gccccacagg	acggcatcag	aattaatgta	actacactga	aagatgatgg	240
ggacatatct	aaacagcagg	ttgtttctta	cataacctat	gagagtggac	aggtgtatgt	300
aaatgactta	cctgtaaata	gtggtgtaac	ccgaataagc	tgtcagactt	tgatagtga	360
gaatgaaaat	cttgaaaatt	tgagggaaaa	agaatatatt	ggaattgtca	gtgtaaggat	420
tttagttcat	gagtggccta	tgacatctgg	ttccagtttg	caactaattg	tcattcaaga	480
agaggtagta	gagattgatg	gaaaacaagt	tcagcaaaag	gatgtcactg	aaattgatat	540
tttagttaag	aaccggggag	tactcagaca	ttcaaactat	accctccctt	tggaagaaa	600
catgctctac	tctattttct	gagacagtga	cattttattt	acccttccta	acctctccaa	660
aaaagaaagt	gttagttcac	tgcaaaccac	tagccagtat	cttatcagga	atgtggaaac	720
cactgtagat	gaagatgttt	tacctgggca	agttacctga	aactcctctc	agagcagagc	780
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ttacaggagc	agctgtggta	ataaccatct	ttaaagggtgt	tttcccagtt	tctgaataca	960
aaggaattct	tcagttggat	aaagtggacg	tcataacctgt	gacagctatc	aacttatatc	1020
cagatgggtc	agagaaaaga	gctgaaaacc	ttgaagataa	aacatgtatt	taaaacgcca	1080
tctcatatca	tggactccga	agtagcctgt	tgccctccaa	tttgccactt	gaatataatt	1140
ttcttttaaa	cgtaagaat	cagtttatac	actagagaaa	ttgctaaact	ctaagactgc	1200
ctgaaaattg	acctttacag	tgcc				1224

<210> 23
<211> 694
<212> DNA
<213> Homo sapiens

<220>

<221> SITE

<222> (577)

<223> n equals a,t,g, or c

<400> 23

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aaatgaactc	ttattaatga	gaacgaggct	cttgacgtgg	caagttctgc	tggtcaccgc	180
atggggatgg	gagcctttca	agcttttttt	tgggtaatac	tcacagtttc	caacgtctgt	240
gtacttttca	aaatgagctt	gttcttccct	ctgacactca	tctcaaagct	ccatggtgac	300
gcagaggtct	gttgaaggtc	acaggtcctc	gcttgcaattg	gcatacggtc	ctgtagcatc	360
acttgttagc	ccactgctgc	ttgaagggaac	taagagtatt	cagggataga	gagctgaaaa	420
taggattaat	tcttcccttt	tgactctccc	ctcaagatgt	ccttgctttg	gtctgaaaac	480
ctctcctgac	aacttttgcc	caaagcaaac	catctgcctt	ttctgaactc	tgagtgaata	540
tattagcatc	ttcccttctg	agccctcgta	ctgccangtt	tgtttgtttg	tttgtttcca	600
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ccctatctct	acaaaaaaaa	aaaaaaaaaa	aaaa			694

<210> 24
<211> 796
<212> DNA
<213> Homo sapiens

<400> 24

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ctgctgctgc	tgctcggcct	cggactaggg	ctggaggcgc	cgcgagcccg	ctttccaccc	120
cgacctctgc	ccaggccgca	cccgagctca	ggctcgtgcc	cacccaccaa	gttccagtgc	180
cgcaccagtg	gcttatgcgt	gccccctacc	tggcgctgcg	acaggacttg	gactgcagcg	240

atggcagcga	tgaggaggag	tgcaggattg	agccatgtac	ccagaaaggg	caatgcccac	300
cgccccctgg	cctccccctgc	ccctgcaccg	gcgtcagtga	ctgctctggg	ggaactgaca	360
agaaactgcg	caactgcagc	cgcttggcct	gcctagcags	gragskcmcg	wkgcacgctg	420
agcgatgact	gcattccact	cacgtggcgc	tgcgacggcc	acccagactg	tcccgaactcc	480
agcgacgagc	tcggctgtgg	aaccaatgag	atcctcccgg	aaggggatgc	cacaaccatg	540
gggccccctg	tgaccctgga	gagtgtcacc	tctctcagga	atgccacaac	catggggccc	600
cctgtgaccc	tggagagtgt	cccctctgtc	gggaatgcc	catcctcctc	tgccggagac	660
cagtctggaa	gcccactgc	ctatgggggt	attgcagctg	ctgcgggtgct	cagtgcgaagc	720
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ctgggggttac	tggtgg					796

<210> 25
 <211> 662
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (647)
 <223> n equals a,t,g, or c

<400> 25	
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gtggtcgggtg	gggtgggatgg
tccctccatt	ggtggagtcc
gaccctgtca	gatgagcatg
aacctctgac	cccactgata
gatccagaaa	cacgatggca
tctgttcttc	agcagcctgt
actactaaag	ttccagtagt
atttaagagt	caattgcttt
aggatcatgt	tttgaagcag
aataaatctg	tttggaggaa
tc	

<210> 26
 <211> 1105
 <212> DNA
 <213> Homo sapiens

<400> 26	
cctgatcctc	tcttttctgc
ttctgccctt	ggctggggaa
gtcacagagc	tgtccggagc
ctgcagggtg	cttggccccta
cgccagctgg	gagagaaggg
ctgtccttcc	tgaggaggtg
actctcacca	ttacgctgcg
agcctccatg	gcagtgaggc
cccctggatc	accgggatgc
gatgcccatg	tggagcacag
attccttccc	ctcttgcccta
tagcagccag	cgccctctgg
ccagtgaact	ggactgtggc
gagacacgtg	aagggaagatg
cccagcctgc	atacttgcca
tactctgcct	gaacactgct
ggaggtggta	agaacacctg
aatccaagac	tgtcatatct
aattcgccct	atagtgaagt

<210> 27
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 27
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 cgagggtgctt tcgccgctgt cccaccact gcagccatga tctccttaac ggacacgcag 120
 aaaattggaa tgggattaac aggatttga gtgtttttcc tgttctttgg aatgattctc 180
 ttttttgaca aagcactact ggctattgga aatgttttat ttgtagccgg cttggctttt 240
 gtaattgggt tagaaagaac attcagattc ttcttccaaa aacataaaat gaaagctaca 300
 gggttttttc tgggtgggtg atttgtagtc cttattgggt ggcccttgat aggcatgatc 360
 ttcgaaattt atggattttt tctcttggtc aggggcttct ttcctgtcgt tgttggcttt 420
 attagaagag tgccagtcct tggatccctc ctaaatttac ctggaattag atcatttgta 480
 gataaagttg gagaaagcaa caatatggta taacaacaag tgaatttgaa gactcattta 540
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 aaatagcttg taatgttctt tacaggagtt taaaacgtat agcctacaaa gtaccagcag 660
 caaattagca aagaagcagt gaaaacaggc ttctactcaa gtgaactaag aagaagtcag 720
 caagcaaact gagagagggt aaatccatgt taatgatgct taagaaactc ttgaaggcta 780
 ttgtgttgtt ttttccacaa tgtgcgaaac tcagccatcc ttagagaact gtggtgcctg 840
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 gtccactgca atggcaaaaa tatttccagt tgcactgtat ctctggaagt gatgcatgaa 960
 ttcgattgga ttgtgtcatt ttaaagtatt aaaaccaagg gaaaccccaa aaaaaaa 1017

<210> 28
 <211> 391
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (281)
 <223> n equals a,t,g, or c

<400> 28
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 cctctagcct tgctgccttg gctttctgac cccttcagg cttcaggggc ctgggagatc 120
 tcatgcctca gccaggaaa catttaatag ggaaagcaga gacatgtcat gtcagcccca 180
 cagacaagaa tttctagagc acttgtcctg ttgttccttg ccccgacatt actcagtcg 240
 ggccatggaa tccatccaat aaacacagca acaccctatg ntactgacca agcaaagctt 300
 gcccttggtg ccaaagagct aaatcatgac caaagtgtga catgaatgta actgaaatgc 360
 gggttagttg ctcaatgtat gcaaagtccc a 391

<210> 29
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 29
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 ccatcaatac ttgtgtcatt ccctgtaaaa ggcaggagac atgtgattat gatcaggaaa 120
 ctgcacaaaa ttattgtttt cagccccctg gttattgtcc ttttgaactg tttttttttt 180
 attaaagcca aatttgtgtt gtatatattc gtattccatg tgtagatgg aagcatttcc 240
 tatccagtgt gaataaaaaa aacagttgta gtaaattatt ataaagccga tgatatttca 300
 tggcagggtta ttctaccaag ctgtgcttgt tgggtttttcc catgactgta ttgcttttat 360
 aaatgtacaa atagtactg aaatgacgag acccttgttt gcacagcatt aataagaacc 420
 ttgataagaa ccatattctg ttgacagcca gtcacagtt tcttgccctga agcttggtgc 480
 accctccagt gagacacaag atctctcttt taccaaagtt gagaacagag ctggtggatt 540

aattaatagt	cttcgatatc	tggccatggg	taacctcatt	gtaactatca	tcagaatggg	600
cagagatgat	cttgaagtgt	cacatacact	aaagtccaaa	cactatgtca	gatgggggta	660
aaatccatta	aagaacagga	aaaaataatt	ataagatgat	aagcaaagt	ttcagcccaa	720
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tatataaaga	catatgcagt	aaaaagtctg	ttaatgcaca	tcctgtggga	atggagtgtt	840
ctaaccaatt	gccttttctt	gttatctgag	ctctcctata	ttatcatact	cagataacca	900
aattaaaaga	attagaatat	gattttttaat	acacttaaca	ttaaactctt	ctaactttct	960
tctttctgtg	ataattcaga	agatagttaa	ggatcttcaa	tgctctctgag	tcattgttat	1020
aaaaaatcag	ttatcactat	accatgctat	aggagactgg	gcaaaacctg	tacaatgaca	1080
accctggaag	ttgctttttt	taaaaaaaata	ataaatttct	taaatcaaaa	aaaaaaaaaa	1139

<210> 30
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 30						
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gcactttaaa	atcttttggt	ctctaattca	tatgaatttg	ctgtttgctc	taattttctt	120
gggctcttct	aatttgagtg	gagtacaatt	ttgtttgtgaa	acagtccagt	gaaactgtgc	180
agggaaatga	aggtagaatt	ttgggaggta	ataatgatgt	gaaacataaa	gattttaataa	240
ttactgtcca	acacagtgga	gcagcttgct	cacaaatata	gtaattacta	tttattgtct	300
taaggaagat	taaaaaaaga	tagggaaaag	ggggaaaact	ctttgaaaaa	tgaaacatct	360
gttacattaa	tgtctaatta	taaaatttta	atccttactg	cattttcttct	gttcctacaa	420
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<210> 31
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (699)
 <223> n equals a,t,g, or c

<400> 31						
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gcagtgtggg	caccagggc	cgcgctgca	acaagaaggc	tccccaggcc	agcggctgtg	180
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actgtaagtt	ccactgggtg	tgctatgtca	agtgcacac	gtgcagcgag	cgcacggang	300
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cctcatcaca	gcaatattta	acaattttat	cctgataaaa	ataatattaa	tttattttaat	660
taaaaagaat	tcttccaaaa	aaaaaaaaaa	aaaaaaacnt	cg		702

<210> 32
 <211> 1142
 <212> DNA
 <213> Homo sapiens

<400> 32
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 aacttcagtt cgacagagtg cagctccttc tctccacca ccacagtgat tctccttatt 120
 ctgctgtgct ttgagggcct gctcttcctc attttcacat cagtgatgtt tgggaccag 180
 gtgcactcca tctgcacaga tgagacggga atagaacaat tgaaaaagga agagagaaga 240
 tgggctaaaa aaacaaaatg gatgaacatg aaagccgttt ttggccacc cttctctcta 300
 ggctgggcca gcccctttgc cagccagac caagggaagg cagaccgta ccagtatgtg 360
 gtctgaagga ccccgaccgg catggccact cagacacaag tccacaccac agcactaccg 420
 tcccatccgt tctcatgaat gtttaaatcg aaaaagcaaa acaactactc ttaaaacttt 480
 ttttatgtct caagtaaaat ggctgagcat tgcagagara aaaaaaagtc ccacattttt 540
 attttttaaa aaccatcctt tctgatttctt ttggtgaccg aagctgctct cttttccttt 600
 taaaatcact tctctggcct ctgggttctc tctgctgtct gtctggcatg actaatgtag 660
 agggcgctgt ctgcgctgt gccattcta ctaactgagt gagacatgac gctgtgctgg 720
 gatggaatag tctggacacc tgggtggggga tgcattggga agccaggagg gccctgacct 780
 tccactgccc caggaggcag tggcgggctc cccgatggga cataaaacct caccgaagat 840
 ggatgcttac cccttgaggc ctgagaaggg caggatcaga agggaccttg gcacagcgac 900
 ctcatcccc aagtggacac ggtttgcctg ctaactcgca aagcaattgc ctgccttgta 960
 ctttatgggc ttgggggtgt tagaatgatt ttgcggggga gtgggggaga aagatgaaag 1020
 aggtcttatt tgtattctga atcagcaatt atattccctg tgattatttg gaagagtgtg 1080
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 ag 1142

<210> 33
 <211> 928
 <212> DNA
 <213> Homo sapiens

<400> 33
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 attttaattt gtacttaaaa tacattttac taatcatatt gatttttaaat atgacaaatt 120
 cttctagtag atactaatct ttcttgttta tcatattgtc cttagagaagc ctaggtaaaa 180
 atgggttcca cctagtctgt ttgtataaca ccttcccccg tccctctctc atccctgcc 240
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 tccaaaacaa taaaagggtt tgactcaaga ttgcatcca agaagaggca gaaattttgt 360
 cttatctttt tatcattttg tgaacttgtg tttctctgta tgcttagaaa atttacacac 420
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 <212> DNA
 <213> Homo sapiens

<400> 34
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tggTcaaaat	cc	ctgtgtag	ctgaattccc	aagccctgca	ttgtacagcc	ccccactccc	720
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 <213> Homo sapiens

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<210> 36
 <211> 459
 <212> DNA
 <213> Homo sapiens

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 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 37						
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taaaacgaaa	gcattccaaa	aaaaaaaaaa				509

<210> 38

<211> 598
 <212> DNA
 <213> Homo sapiens

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<210> 39
 <211> 454
 <212> DNA
 <213> Homo sapiens

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<210> 40
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 40
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<210> 41
 <211> 2471
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (42)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1932)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1957)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1983)

<223> n equals a,t,g, or c

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<221> SITE

<222> (1989)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2003)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2018)

<223> n equals a,t,g, or c

<400> 41

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<210> 42

<211> 2659

<212> DNA

<213> Homo sapiens

<400> 42

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<210> 43
 <211> 1635
 <212> DNA
 <213> Homo sapiens

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 <222> (1626)
 <223> n equals a,t,g, or c

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 tctccngaaa aaaaaa 1635

<210> 44
 <211> 780
 <212> DNA
 <213> Homo sapiens

<400> 44
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<210> 45
 <211> 2378
 <212> DNA
 <213> Homo sapiens

<400> 45
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 <213> Homo sapiens

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<211> 1107

<212> DNA

<213> Homo sapiens

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<211> 805

<212> DNA

<213> Homo sapiens

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<211> 1408

<212> DNA

<213> Homo sapiens

<400> 49

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<211> 1813

<212> DNA

<213> Homo sapiens

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tcagcagccc	gggccttgag	gcctctctcc	ccactgagcc	agcagcccag	gaggagtccac	1500
tctcccaggc	gccagcaagg	gcagtcctgc	agcctgggtgc	atcaccactt	cctgatggag	1560
agtcagaagc	ttccaggcct	ccaagggtcc	atggaccacc	tactgagact	ctgcccactc	1620
ccagggagag	gaacctagca	tcccatcac	cttccactct	ggttgaggca	agagaggtgg	1680
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<210> 54

<211> 1117

<212> DNA

<213> Homo sapiens

<400> 54

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gcaggaggag	gggaggagag	agtggggctc	ctctatcggg	acccctccc	catgtggatc	180
tgcccaggcg	gcggcggcgg	aggaggcgac	cgagaagatg	cccgccctgc	gccccgctct	240
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gaaaagaaca	cgatgagaat	tagacactgg	aaaatatgta	tgtgtggtta	ataaagtgct	1080
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<210> 55

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 55

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gaccgcggcg	ggtccggggc	ggcgcccggg	gctgccacag	ccgcgcgcgc	ttctgctgct	180
gctgctgctg	ccgctgttgt	tagtcaccgc	ggagccgccg	aaacctgcag	gagtctacta	240
tgcaactgca	tactggatgc	ctgctgaaaa	gacagtacaa	gtcaaaaatg	taatggacaa	300
gaatggggac	gcctatggct	tttacaataa	ctctgtgaaa	accacaggct	ggggcatcct	360
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ttattacat	gaaaccaatt	ttgaaacttg	atataaaatg	aaggaggagg	atgacggact	1800
agaagactgt	aaataagata	ccaaaggcac	tatttttagct	atgtttttcc	catcagaatt	1860
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<210> 56

<211> 1869

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (236)

<223> n equals a,t,g, or c

<400> 56

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acgatgctgc	agggccctgg	ctcgctgctg	ctgctcttcc	tgcctctgca	ctgctgcctg	180
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tgcaagccca	tcccgggtcaa	cctgcagctg	tgccacggca	tccaatacca	gaacatgcgg	300
atgcccaccc	tgctggggcca	cgagaccatg	aaggaggtgc	tggagcaggc	cggcgcttgg	360
ctcccgctgg	tcatgaagca	gtgccacccg	gacaccaaga	agttcctgtg	ctcgctcttc	420
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gtgaaggaga	taacctacat	caaccgagat	acaaaaatca	tccctggagac	caagagcaag	780
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taaccaacac	tgtaaatatt	tcagataaac	attatattct	tgtatataaa	ctttacatcc	1860
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<210> 57

<211> 1259

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1186)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1196)

<223> n equals a,t,g, or c

<400> 57

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cgggtckcca	gggctgctgc	ggccattccc	ggagcccggc	gcggggcccg	nragatactg	180
gtttaggccg	tcccagggtc	ccgggcgcac	ccgktggccg	ctgctgcagc	ggagggagcg	240
cggcggcgs	ngggctcgsa	gacagcgttt	ctcccgsaat	cttcctcggs	cagcargtgg	300
gaagtgggag	ccggagcggc	actggcarcg	ttctctccgc	angtcggcac	catgcgccct	360
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gcggacaagc	gcctgcgtga	caaccatgag	tggaaaaaac	taattatggg	tcagcactgg	480
cctgagacag	tatgcgagaa	aattcaaaac	gactgtagag	accctccgga	ttactggaca	540
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gaagagatta	aggatctttt	gccagaaatg	agggcatact	ggcctgacgt	aattcactcg	660
tttcccaatc	gcagccgctt	ctggaagcat	gagtgggaaa	agcatgggac	ctgcgccgcc	720
caggtggatg	cgctcaactc	ccagaagaag	tactttggca	gaagcctgga	actctacagg	780
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caagttgcag	attttaaaga	tgcccttgcc	agagtatatg	gagtgatacc	caaaatccag	900
tgccttccac	caagccagga	tgaggaagta	cagacaattg	gtcagataga	actgtgcctc	960
actaagcaag	accagcagct	gcaaaactgc	accgagccgg	gggagcagcc	gtcccccaag	1020
caggaagtct	ggctggcaaa	tggggcccgcc	gagagccggg	gtctgagagt	ctgtgaagat	1080
ggcccagtct	tctatcccc	acctaataaag	accaagcatt	gatgcccagg	ttttggaaat	1140
attctgtttt	aaaaagcaag	agaaattcac	aaactgcagc	tttctnaaaa	aaaaanaaaa	1200
aaaaattggg	gggttttttt	ggggsgcccg	gggcccttgg	tttttcccc	cgggggggt	1259

<210> 58

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 58

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tccatcgaca	tgaagaagag	aaattcttct	taaatgccaa	aggccagaaa	gaaactttac	180
ccagcatatg	ggactcacct	accaaacaac	tttctgtcgt	tgtgccttca	tacaatgaag	240
aaaaacgggt	gcctgtgatg	atggatgaag	ctctgagcta	tctagagaag	agacagaaac	300

gagatcctgc	gttcacttat	gaagtgatag	tagttgatga	tggcagtaaa	gatcagacct	360
caaaggtagc	ttttaaatat	tgccagaaat	atggaagtga	caaagtacgt	gtgataaccc	420
tgggtgaagaa	tcgtggaaaa	ggtggagcga	ttagaatggg	tatattcagt	tctcgaggag	480
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gagctcattt	agaaaaagaa	tcaattgctc	agcgttctta	cttccgtact	cttctcatgt	660
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tgtcattgtc	tgccctttga	taatttttaa	gaaataactt	tccataagta	aaaaattata	1140
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<210> 59
 <211> 428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (401)
 <223> n equals a,t,g, or c

<400> 59	
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agcagagttc	caagtctccc
rggttttagct	gggggaagga
tgcttttttc	attacgtact
ttattgtgcc	agggatgggg
ttttcttcag	tgtaattgtt
ttcaaaataa	aactttttga
cgggtacc	
cgccacgagt	actgattctt
ctaggggttg	ctctacattt
catttcataa	gggttagttg
gttggttttc	cttggttaggt
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cttggttaatt	gataacctct
aaaaaataaa	naaaaaaactc
cggtacc	
gactgagctt	kgtttagtata
ctttatcatt	ccagtgggta
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tgtttttatt	ntctcattct
gggggggggg	

<210> 60
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 60	
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ttggttttct	gtgtgggtct
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ttcatcctgg	gcatacctcat
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tccaccgcga	ggcggtagaa
cctgacatct	cccacgctcc
ccctgcccc	gcagactccc
aaaaaaaaaa	aaataaaaaa
gacagcccga	ttgggggacaa
cctcaccatg	gccaaaggcag
gtccctgcag	atoggaggcc
cgtgctgagc	agaagatgcc
tgaagaggag	ggaactttcc
acacctggag	cgatggaatc
aactgcgcgc	ccaccgcccc
cctgcgcgca	agactttccaa
a	
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aaagtccaaa	ggaacacgac
tcgtcatcgc	cgggatcctc
ggtgcaagtt	caaccagcag
gcagctccat	ccgccgtctg
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<210> 61
 <211> 1197

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (944)
<223> n equals a,t,g, or c

<400> 61
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 agtgccctgcg ggacttcctg acgccccgc tgctgtccgt gcgcttccgg tacgtgggcg 120
 cccccaggc cctcacctg aagctcccag tgaccakcaa caagttcttc cagcccaccg 180
 agatggcggc ccaggatttc ttccagcgct ggaagcagct gagcctccct caacaggagg 240
 cgcagaaaaat cttcaaagcc aaccacccca tggacgcaga agttactaag gccaagcttc 300
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 agagaagaca ccagggtttg ggggatgcct gggactttcc tccggccttt tgtattttta 660
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 ggcctggtag acctcatctt ctgtcttcty tgggtggcct ggctctgggt ggaagtgcgt 1140
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<210> 62
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (76)
<223> n equals a,t,g, or c

<400> 62

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ccagatgttc	tctgctcctg	gttaatgtca	gtgagggctg	gaagttgaat	aaatgagaac	180
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attagaaaaa	ccataaaatc	tctggcctat	gcacattgtc	cctgttttgt	gaaaacatta	480
aagggtaaat	aaaaaggaag	gagaacagtc	aataatgtgc	atcaaatata	ttctgagttc	540
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<210> 63

<211> 1478

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1464)

<223> n equals a,t,g, or c

<400> 63

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<210> 64

<211> 2033

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65
<211> 440
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (417)
<223> n equals a,t,g, or c

```

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<400> 65
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440

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<210> 66
<211> 3301
<212> DNA
<213> Homo sapiens

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<220>

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<221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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<220>
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <222> (3004)
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<400> 66

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<210> 67

<211> 1535

<212> DNA

<213> Homo sapiens

<400> 67

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1535

<210> 68
 <211> 1244
 <212> DNA
 <213> Homo sapiens

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 <222> (885)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<210> 69
 <211> 1292
 <212> DNA
 <213> Homo sapiens

<400> 69
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<210> 70
 <211> 1031
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (980)
 <223> n equals a,t,g, or c

<400> 70						
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gcaaattcta	agctgccata	ttgaacatca	tcccactggg	agtggttatg	ttgtatcccc	180
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gcatttagtt	cagagtggan	gggctttggs	ctgaaataaa	atgcaagtat	ttaaaaaaaa	1020
aaaaaaaaaa	a					1031

<210> 71
 <211> 855
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (852)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (854)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (855)
 <223> n equals a,t,g, or c

<400> 71
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 gcggcgacca tggcgtatca cggcctcact gtgcctctca ttgtgatgag cgtgttctcg 120
 ggcttcgctg gcttcttgggt gccttgggtc atccctaagg gtcctaaccg gggagttatc 180
 attaccatgt tggtagacctg ttcagtttgc tgctatctct tttggctgat tgcaattctg 240
 gcccaactca accctctctt tggaccgcaa ttgaaaaatg aaaccatctg gtatctgaag 300
 tatcattggc cttgaggaag aagacatgct ctacagtgcct cagtctttga ggtcacgaga 360
 agagaatgcc ttctagatgc aaaatcacct ccaaaccaga ccacttttct tgacttgccct 420
 gttttggcca ttagctgcct taaacgttaa cagcacattt gaatgcctta ttctacaatg 480
 cagcgtgttt tcctttgcct tttttgcact ttggtgaatt acgtgcctcc ataacctgaa 540
 ctgtgccgac tccacaaaac gattatgtac tcttctgaga tagaagatgc tgttcttctg 600
 agagatacgt tactctctcc ttggaatctg tggatttgaa gatggctcct gccttctcac 660
 gtgggaatca gtgaagtgtt tagaaactgc tgcaagacaa acaagactcc agtgggggtgg 720
 tcagtaggag agcacgttca gagggaagag ccactctaac agaatcgac caaactatac 780
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 rraaaaaaaaa anann 855

<210> 72
 <211> 1274
 <212> DNA
 <213> Homo sapiens

<400> 72
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 gaaggcactg agatgggggc ccgtccaggc ggacacccgc agaaatggag ctttctgtgg 180
 tctcttgac tctggctgcc tcttgccctc tctgtgtctc tctttcttgg tctctccctc 240
 tctcctcctc agcctggtct ttctcttttg tgcacactta gttattgttg tgagcaatgg 300
 aagttcaaaag gaactccctc tccagctctt ctgaatcttg ggacacagcc taaaaaggac 360
 aaaaagttag aagacagcat agcaactcag ctgagggagc taccagagaa aaatagcaac 420
 tgatgtgggt gctttttttt tttttttaat ttgaataaaa agaattagaa gtgatgtcct 480
 tttataaaat gccttctccc ccttcccggc tacagtctct tctctctccc ttagaggggg 540
 gaaagtgtat aaacctacag ggttgtgagt ctgaaaagag gatccccctc acccccaccc 600
 tgggcagagc agtgggggtt ggggggtggg agagggggac acagatcctg gcacactgtg 660
 gatatttctt gcagattgca gtctcttggt gcccaaacag gttaggtaga ctatcgccctc 720
 tggcaggtgc caccttttgg taccaacatg ttctgaggtg ttaggatttg ggttgggttt 780
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 agaaggagg gtgagggtag aagaaagtta ttcccgaaga aaaaaagaat gaaaagtcac 1200
 tgtactgaac tgtttttata tttttaaaag ttactattwa aaggtaaaaa aaaggggggg 1260
 cccggtaccc aatt 1274

<210> 73
 <211> 688
 <212> DNA
 <213> Homo sapiens

<400> 73

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agcccagggg	gctgtgtctg	ttcaagtcag	gcttccccgg	ccctcgcgca	cagcgcttcc	120
acgggcagcc	cggggcccca	ccccacgcac	tgaagaggcc	gcctgggctg	ccatggccct	180
gaccttccctg	ctgggtgctg	tcacctgggc	cacgtctgca	cacggctgca	cagaaacttc	240
cgacgcgggg	agagcatcta	ctggggggccc	acagcggaca	gccaggacac	agtggctgct	300
gtgctgaagc	ggaggctgct	gcagccctcg	cgccgggtca	agcgctcgcg	ccggagaccc	360
ctctcccgcc	cacgccggac	agcggcccgg	aaggcgagag	ctcgagtgta	cgccctggga	420
cctgccactg	tggcgtgcgg	ctcctccccg	cgccgcgagg	ccgcgacctc	tgccacgtgg	480
accgcgcgcg	gggcgctccc	tgggtggcgat	ggcgcggcac	tggccgagca	ctgcgggggc	540
tttccctcctt	gttggttgct	gagtgggcgg	ccaaggggag	aaaaggagcc	gcttctgcct	600
cccttgccaa	aactccgttt	ctaattaaat	tatttttagt	agaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaa				688

<210> 74

<211> 1890

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1876)

<223> n equals a,t,g, or c

<400> 74

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aagaggctga	ctgtacgttc	cttctactct	ggcaccactc	tccaggctgc	catggggccc	120
agcacccttc	tcctcatctt	gttccttttg	tcattggctcg	gacccctcca	aggacagcag	180
caccaccttg	tggagtacat	ggaacgccga	ctagctgctt	tagaggaacg	gctggcccag	240
tgccaggacc	agagtagtcg	gcatgctgct	gagctgcggg	acttcaagaa	caagatgctg	300
ccactgctgg	aggtggcaga	gaaggagcgg	gaggcactca	gaactgaggc	cgacaccatc	360
tccgggagag	tggatcgtct	ggagcgggag	gtagactatc	tggagaccca	gaaccagct	420
ctgccctgtg	tagagtgttg	tgagaagggtg	actggaggcc	ctgggaccaa	aggcaaggga	480
agaaggaatg	agaagtacga	tatggtgaca	gactgtgggt	acacaatctc	tcaagtgaga	540
tcaatgaaga	ttctgaagcg	atttggtggc	ccagctgggt	tatggaccaa	ggatccactg	600
gggcaaacag	agaagatcta	cgtgttagat	gggacacaga	atgacacagc	ctttgtcttc	660
ccaaggctgc	gtgacttcac	ccttgccatg	gctgcccggg	aagcttcccc	agtcggggtg	720
cccttccctt	gggtaggcac	agggcagctg	gtatatgggt	gctttcttta	ttttgctcgg	780
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ccccctacg	gcttgacagc	agacacctac	atcgacctgg	cagctgatga	ggaaggctct	960
tgggctgtct	atgccacccg	ggaggatgac	aggcacttgt	gtctggccaa	gttagatcca	1020
cagacactgg	acacagagca	gcagtgggac	acaccatgtc	ccagagagaa	tgctgaggct	1080
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gctctcctgc	cccattgtcaa	caaatttcag	gctaaggatg	ccccagaccc	agggtcttaa	1620
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gtgtcctgag	gaacaggact	ttctccacat	tgttttgtat	tgcaacattt	tgcattaaaa	1800
ggaaaatcca	ctgcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaacgg	cacgaggggg	1860
ggtcccgtac	ccaatngccc	tcacatgcac				1890

<210> 75

<211> 1133

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1110)
<223> n equals a,t,g, or c

<400> 75

gccggtctga	gtgcagagct	gctgtcatgg	cggccgctct	gtggggcttc	tttcccgctcc	60
tgctgctgct	gctgctatcg	ggggatgtcc	agagctcggg	gggcccggg	gctgctgctg	120
agggatcggg	agggagtggg	gtcggcatag	gagatcgctt	caagattgag	gggcgtgcag	180
ttgttccagg	ggtgaagcct	caggactgga	tctcggcggc	ccgagtgtctg	gtagacggag	240
aagagcacgt	cggtttcctt	aagacagatg	ggagttttgt	ggttcatgat	ataccttctg	300
gatcttatgt	agtggaagtt	gtatctccag	cttacagatt	tgatcccgtt	cgagtggata	360
tcacttcgaa	aggaaaaatg	agagcaagat	atgtgaatta	catcaaaaca	tcagagggtg	420
tcagactgcc	ctatctcttc	caaatgaaat	cttcagggtcc	accttcttac	tttattaaaa	480
gggaatcgtg	gggctggaca	gactttctaa	tgaacccaat	ggttatgatg	atggttcttc	540
ctttattgat	atgtgtgctt	ctgcctaaag	tggccaacac	aagtgtatcct	gacatgagac	600
gggaaatgga	gcagtcaatg	aatatgctga	attccaacca	tgagttgcct	gatgtttctg	660
agttcatgac	aagactcttc	tcttcaaaat	catctggcaa	atctagcagc	ggcagcagta	720
aaacaggcaa	aagtggggct	ggcaaaagga	ggtagtcagg	ccgtccagag	ctggcatttg	780
cacaaacacg	gcaacactgg	gtggcatcca	agtcttgga	aaccgtgtga	agcaactact	840
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tattgatgtc	actgaattaa	ttacagtgtc	ctatagaaaa	tgccattaat	aaattatatg	1020
aactactata	cattatgtat	attaattaaa	acatcttaat	ccagaaaaaa	aaaaaaaaaa	1080
aactcgaggg	ggggcccggg	acccaatttn	ccaaatggga	gtcgtaaaaa	atc	1133

<210> 76
<211> 585
<212> DNA
<213> Homo sapiens

<400> 76

atgtttacaa	tgttgtgtat	aaatgggaca	actcctcgcc	ctctacctgt	cccccccccc	60
tttggttgta	tgattttctt	cttttttaag	aacccctgga	agcagcgcc	ccttcagggg	120
tggtctggag	ctcgcccat	ccacctcttg	gggtacctgc	ctctctctct	cctgtgggtg	180
cccttccctc	tcccatgtgc	tcggtgttca	gtggtgtata	tttcttctcc	cagacatggg	240
gcacacgccc	caaggacat	gatcctctcc	ttagtcttag	ctcatggggc	tctttataag	300
gagttggggg	gtagaggcag	gaaatgggaa	ccgagctgaa	gcagaggctg	agttaggggg	360
ctagaggaca	gtgctcctgg	ccaccagacc	tctgctgaga	accattcctg	ggattagagc	420
tgccctttccc	agggaaaaag	tgctgtctcc	ccgacctccc	cgtggggcct	gtggtgtgat	480
gctgtgtctg	tattttctat	acaaagggtac	ttgtcctttc	cctttgtaaa	ctacatttga	540
catggattaa	accagtataa	acagttaaaa	aaaaaaaaaa	aaaaa		585

<210> 77
<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (561)
<223> n equals a,t,g, or c

<400> 77

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ggtgcctcag	cttccttctg	atggggacct	tctgtcagt	ttcccagaca	gtcctggccc	120
agctggatgc	actgctgggtc	ttcccaggcc	aagtggctca	actctcctgc	acgctcagcc	180

cccagcacgt	caccatcagg	gactacgggt	tgtcctggta	ccagcagcgg	gcaggcagtg	240
cccctcgata	tctcctctac	taccgctcgg	aggaggatca	ccaccggcct	gctgacatcc	300
ccgatcgatt	ctcggcagcc	aaggatgagg	cccacaatgc	ctgtgtcctc	accattagtc	360
ccgtgcagcc	tgaagacgac	gcggattact	actgctctgt	tggctacggc	tttagtccct	420
aggggtgggg	tgtgagatgg	gtgcctcccc	tctgcctccc	atttctgccc	ctgaccttgg	480
gtcccttttta	aacttttctct	gagccttgct	tccccctctgt	aaaatgggtt	aataatattc	540
aacatgtcaa	caacaaaaaa	naaaaawaaa	aactcga			577

<210> 78
 <211> 2278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (956)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1062)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1290)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1442)
 <223> n equals a,t,g, or c

<400> 78	
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ccgccggagc	agagccgggt
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gaatgggagg	cttttgcaaa
gtcattcaag	aaccagggtt
catgcaaagg	atgggatatt
aattatatct	tagagaagaa
gcttctctaa	cgatgtctgg
cttcacaact	atttcacagt
gtcatagcca	ccttggtttt
tgtttctatg	tgccacttcc
gaggaggctc	atagagctga
gaagaagaaa	acaaagacag
gaggatgaag	cagaggaaga
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aagttcattt	acttaggggt
cagcaccttc	cagagacaag
gntctgaggc	atcccaaaag
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gctagaaatt	gaaagggcct
caacatggcg	ggatggcgct
ggctgtggcg	gcgacggcag
ccagcccatg	accgcctcca
tggtgtccat	cctgccagca
atacttcaga	tcagtgtggg
ttctttgtca	ccactctccc
cgatggcccg	agcatttttt
cgtggcccag	gaatcttcga
gtcgagcctc	tgactggctg
gatgaggagg	aggaaaaaga
gacaaacttg	agaaagaaga
gtgtgacctg	ggaggnaaagt
tgagcaaccc	tgcccagctg
tcagcatgct	gncaagggac
gcttcccttt	ggcctgcagt
tcttaaaaga	tgctctctag
tatactaagg	agagtcttcc
tgaggactgt	ggatgggaac
aggccattcc	cagtcctaatt
aaagccaagc	aggagccttg
tccttttctt	gtgtaaagta
ggcaccacag	tgcatgaaaa
gagcagctca	gaagtcatcc
cagccctctg	

aatctcctgt	gctatgtttt	atttcttacc	tttaattttt	ccagcatttc	caccatgggc	1680
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cttcagtgat	gtgcttttgg	tgaaagaatt	aatgaactcc	agtacctgaa	agtgaagat	2160
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<210> 79

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1049)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1050)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1051)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1103)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1104)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1110)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1143)

<223> n equals a,t,g, or c

<400> 79

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ggccccggag	gccccacagc	acacccacat	cgatgtgcac	atccaccagg	agtcgtccct	180
ggccaagctc	ctgctcacct	gctgctctgc	gctgcggccc	cgggccaccc	aggccagggg	240
cagcagccgg	ctgctggtgg	cctcgtgggt	gatgcagatc	gtgctgggga	tcttgagtgc	300
agtcctagga	ggatttttct	acatccgcga	ctacaccctc	ctcgtcacct	cgggagctgc	360
catctggaca	ggggctgtgg	ctgtgctggc	tggagctgct	gccttcattt	acgagaaacg	420
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catcgctgcc	ctcaaacttt	ggaatgaaga	tttccgatat	ggctactctt	attacaacag	540
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agaagtcaga	aggctacacc	tatgtacctc	cttcatggac	atgctgaagg	ccttgttcag	660
aacccttcag	gccatgctct	tgggtgtctg	gattctgctg	cttctggcat	ctctggcccc	720
tctgtggctg	tactgctgga	gaatgttccc	aaccaaagg	aaaagagacc	agaaggaaat	780
gttgggaagt	agtggaatct	agccatgcct	ctcctgatta	ttagtgcttg	gtgcttctgc	840
accgggctg	cctgcatctg	actgctggaa	gaagaaccag	actgaggaaa	agaggctctt	900
caacagcccc	agttatcctg	gccccatgac	cgtggccaca	gccctgctcc	agcagcactt	960
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tgtgataata	aactctcatg	ttattgtttn	naaaaaaaaa	aaaaaaaaaa	aatttggggg	1080
ggggccggta	cccattgggc	ctnngggggn	ggtttaaaat	taatgggggg	ggtttaaaag	1140
ggn						1143

<210> 80
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (553)
 <223> n equals a,t,g, or c

<400> 80						
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tccccacag	tccctctgga	cttctctgga	ccacagtcc	ctgccagacc	cctgccagac	120
cccagtcac	catgatccat	ctgggtcaca	tccctctcct	gcttttgctc	ccagtggctg	180
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gctcttggtc	cggatgtggg	tccctctctc	tgccgctcct	ggcagggcctc	gtggctgctg	300
atgcggtgcc	atcgctgctc	atcggtgggg	cggtgttcc	gtgcgcacgc	ccacgccgca	360
gccccgccc	agaagatggc	aaagtctaca	tcaacatgcc	aggcaggggc	tgacctcct	420
gcagcttgga	cctttgactt	ctgacctct	catcctggat	ggtgtgtggt	ggcacaggaa	480
ccccgcgcc	aacttttgga	ttgtaataaa	acaattgaaa	caccaaaaaa	aaaaaaaaaa	540
aaaaaaaaa	aantcga					557

<210> 81
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (772)
 <223> n equals a,t,g, or c

<400> 81						
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ctgctggcgc	tgtagtgcc	gggcgggtgt	gccgccaaaga	ccgggtgcga	ctcgtgacct	120
gcgggtcggt	gctgaagctg	ctcaatacgc	accaccgcgt	gcgctgcact	cgcacgacat	180
caaatacggg	tccggcagcg	gccagcaatc	ggtgaccggc	gtagaggcgt	cggacgacgc	240
maatagctac	tggcggatcc	gcggcggctc	ggagggcggg	tgcccgcgcg	ggtccccggt	300
gcgctgcggg	caggcgggtga	ggctcacgca	tgtsccttacg	ggcaagaacy	tgcacacgca	360
ccayttccc	tgcgcgtgt	ccaacaacca	ggaggtgagt	gcctttgggg	aagacggcga	420
gggcgacgac	ctggacctat	ggacagtgcg	ctgctctgga	cagcactggg	agcgtgaggc	480
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acgtggaagg	ccatggaagg	catcttcac	aagcctagt	tggagccctc	tgcaggtcac	660
gatgaactct	gagtgtgtgg	atggatgggt	ggatggagg	tggcaggtgg	ggcgtctgca	720
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gaatgttggt	ctatg					795

<210> 82
 <211> 1324
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (597)
 <223> n equals a,t,g, or c

<400> 82
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 cctctgcctg ccactcagtg ggcaacaccc gggagctgtt ttgtcctttg tggagcctca 120
 gcagttccct ctttcagaac tcaactgccaa gagccctgaa caggagccac catgcagtgcc 180
 ttcagcttca ttaagaccat gatgatcctc ttcaatttgc tcatctttct gtgtgggtgca 240
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 gggccactgt cgtccagtgcc catgcagttt gtcaacgtgg gctacttct catcgagcc 360
 ggcgttgttg tctttgctct tggtttctct ggctgctatg gtgctaagac tgagagcaag 420
 tgtgccctcg tgacgttctt cttcatcctc ctctcatct tcattgctga ggttgagct 480
 gctgtggctg ccttgggtga caccacaatg gctgagcact tctgacgtt gctggtagtg 540
 cctgccatca agaaagatta tggttcccag gaagacttca ctcaagtgtg gaacacnacc 600
 atgaaagggc tcaagtgtg tggcttcacc aactatacgg attttgagga ctaccctac 660
 ttcaaagaga acagtgcctt tccccattc tgttgcaatg acaacgtcac caacacagcc 720
 aatgaaacct gcaccaagca aaaggctcac gaccaaaaag tagaggggtg cttcaatcag 780
 cttttgtatg acatccgaac taatgcagtc accgtgggtg gtgtggcagc tgggaattggg 840
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 cacttctgcc tctgccacta ctgctgccac atgggaactg tgaagaggca ccctggcaag 960
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 ccagtgtct actgggggat gagagaaagg cattttatag cctgggcata agtgaaatca 1260
 gcagagcctc tgggtggatg tgtagaaggc acttcaaaat gcataaacct gttacaatgt 1320
 taaa 1324

<210> 83
 <211> 1494
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (612)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (620)
 <223> n equals a,t,g, or c

<400> 83
 ctcaggcttc tgtctcactt ttccgggggg gggattaggg caaggagggc atgagggact 60
 gtctctccct aaaaccaga cccctgttcc ccactcagtt cttcttcac ctcctcctca 120
 tcttcattgc tgaggttgca gctgctgtgg tcgccttggt gtacaccaca atggtgagac 180

actgggatgg	aggaagggaa	gaagattggg	caaaaccctg	ggagtgggct	gtggcctgtg	240
aatggccacc	ttctgtacca	gcccctaaac	actggcctgc	ctcaccacag	ctgagcactt	300
cctgacgttg	ctggtagtgc	ctgccatcaa	gaaagattat	ggttcccagg	aagacttcac	360
tcaagtgtgg	aacaccacca	tgaaggggtg	aagggtggct	gggggaggtt	ttagggtgga	420
gagaaagaag	caaggcccca	cctccaccct	catcttgtct	ccagctcaag	tgctgtggct	480
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cattctgttg	caatgacaac	gtcacccaac	acagcccaat	gaaacctgca	ccaagcaaaa	600
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tcttccyga	gggttgcttc	aatcagcttt	tgtatgacat	ccgaactaat	gcagtcaccg	780
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tccttttagc	gatgcctgac	tttcttcca	ttggtgggtg	gatgggtggg	gggcattcca	1260
gagcctctaa	ggtagccagt	tctgttgccc	attccccag	tctattaaac	ccttgatatg	1320
ccccctaggc	ctagtgtgta	tcccagtgct	ctactggggg	atgagagaaa	ggcattttat	1380
agcctgggca	taagtgaat	cagcagagcc	tctgggtgga	tgtgtagaag	gcacttcaaa	1440
atgcataaac	ctgttacaat	gttaaaaaaa	aaaaaaaaaa	aactcgactc	tgcc	1494

<210> 84

<211> 1285

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (663)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1280)

<223> n equals a,t,g, or c

<400> 84

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tgagttcct	gtgcatgag	ttcctgcgag	sgaaccacag	ggtagaccgg	ctgctctctg	120
agatgcgcat	tcacctgctg	ccctccatga	accctgatgg	ctatgagatc	gcctaccacc	180
ggggttcaga	rcgtgtgggc	tgggcccarg	gccgctggaa	caaccagagc	atcgatctta	240
accataatth	tgctgamctc	aacacaccac	tgtgggaagc	acaggacgat	gggaagggtg	300
cccacatcgt	cccccaaccat	cacctgccat	tggccactta	ctacaccctg	cccaatgcca	360
ccgtggctcc	tgaaacgcgg	gcagtaatca	agtggatgaa	gcggatcccc	tttgtgctaa	420
gtgccaacct	ccacgggggt	gagctcgtgg	tgtcctaccc	attcgacatg	actcgcaccc	480
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aggacttctc	cgtgcacggc	aacatcatca	acggggcytg	actnnggcaca	cggtecccg	660
gangcatgaa	tgayttcagc	tacctacaca	ccaactgctt	tgaggtcact	gtggagctgt	720
stgttgacaa	gttccctcac	gagaatgaat	tgccccagga	gtgggagaa	aacaaagacg	780
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ccagtkccga	gggttaccat	tcagtgacac	ggaactgtcg	ggtcaccttt	gaagagggcc	1020

ccttccccctg	caatttcgtg	ctcaccaaga	ctcccaaaca	gaggctgcg	gagctgctgg	1080
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cttaaaaaaa	aaaaaaaaan	aaaaa				1285

<210> 85
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> n equals a,t,g, or c

<400> 85						
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tagtatctgt	gcataaggtg	gttgtgcgat	aaatgagtta	atgtatgcaa	agcccttggc	120
ccagagccgg	cgcagagcat	tgtgtaagts	ctggcaggcg	tcattgatga	gatatacatgt	180
ctcctcttrt	tgattcagga	ttctgatgag	atggaggatg	ggcctggggg	tcaggattag	240
gccttgaggc	actgctccag	cctcctttgt	gggccctgtc	acccttggct	tcacggggcc	300
gtarcaagtc	tccctctctc	cactytcag	cagargtggt	caagaactgc	ctgctcacgg	360
ttcgtgttct	gcaaggccat	cgctaaccct	ctaa			394

<210> 86
 <211> 1925
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> n equals a,t,g, or c

<400> 86						
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ctgagcagga	ggaagcaggt	ggtagccgcg	gccttgaggc	aggccctgca	gctggatgga	120
gacctgcagg	aggatgagat	cccagtggta	gctattatgg	ccactgggtg	tgggatccgg	180
gcaatgactt	ccctgtatgg	gcagctggct	ggcctgaagg	agctgggcct	cttggattgc	240
ktctctaca	tcaccggggc	ctcgggctcc	acctgggcct	tgcccaacct	ttataaggac	300
ccagagtggg	ctcagaagga	cctggcaggg	cccactgagt	tgctgaagac	ccaggtgacc	360
aagaacaagc	tgggtgtgct	ggccccccagc	cagctgcagc	ggtagcggca	ggagctggcc	420
gagcgtgccc	gcttgggcta	cccaagctgc	ttcaccaacc	tgtgggcccct	catcaacgag	480
gcgctgctgc	atgatgagcc	ccatgatcac	aagctctcag	atcaacggga	ggccctgagt	540
catggccaga	accctctgcc	catctactgt	gccctcaaca	ccaaagggca	gagcctgacc	600
acttttgaat	ttggggagtg	gtgcgagttc	tctccctacg	aggctgggctt	ccccaagtag	660
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tcaacagccg	gcagaatagc	tgagtttttc	accgatcttc	tgacgtggcg	tccactggcc	960
caggccacac	ataatttctc	gcgtggcctc	catttccaca	aagactactt	tcagcatcct	1020
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gagccccacc	tgtgcctgct	ggatgttggc	tacctcatca	ataccagctg	cctgcccctc	1140
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tcttcatcgg	actctcccta	ccactacacg	aaggtgacct	acagccagga	ggacgtggac	1500
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cacccaaaac	ccccggcct	gtgcctgttt	tccttctgc	gctaccttga	gtagttggag	1860
cacttgatac	atcacagact	catacaaagt	tgaggcgctg	agaaaaaaaa	aaaaaaaaaa	1920
ctcga						1925

<210> 87

<211> 1818

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (237)

<223> n equals a,t,g, or c

<400> 87

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ggtgattaca	caaattgggt	tggcctcctt	accccactgc	aaactgctga	ggcgcaaggg	180
agctcccgag	cctcagcctg	gacctggga	cagtgcacac	tgagcccgag	gctctgnaag	240
cactgcgtga	tgacagttcc	cacctgcaac	tcagcagcca	gggaatgaat	gagagttagg	300
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cgcagagcct	ccagcagctg	ctcctgggtg	ttgcagacat	tgtaattgtg	caggtgcagc	420
agcttgtcca	cgtcctcctg	gctgtagggt	accttcgtgt	agtggtaggg	agagtccgat	480
gaagacaggt	tcacctcccc	agctgccgcc	tcctcgggtg	tcgcgccggac	cccagggggc	540
gagtactccc	ggaaggagtc	gctgaccaga	ggaaagtgca	gcaccgcagg	ggctccgggg	600
caggtgggg	cggagaagg	gtggcactcc	cgaggctgga	gctgctcttc	ggggctgggc	660
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gcctgggcca	gtggacgcca	cgtcagaaga	tcggtgaaaa	actcagctat	tctgccggct	1020
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gccccgtact	tggggaagcc	gacctcgtag	ggagagaact	cgcaccactc	cccaaattca	1320
aaagtggcca	ggctctgccc	tttgggtgtg	agggcacagt	agatgggcag	agggttctgg	1380
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gagacgcaat	ccaagaggcc	ccagctcctt	tcaggccagc	cagctgcca	tacagggaag	1740
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gcaggtctcc	atccagct					1818

<210> 88
 <211> 539
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (396)
 <223> n equals a,t,g, or c

<400> 88						
agggtaatta	atatgaagtg	caaaaagttg	aatgttccag	tctaaaaggc	agtgggagaa	60
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ggcaagttct	gctggtcacc	cgatggggat	gggagccttt	caagcttttt	tttgggtaat	180
actcacagtt	tccaacgtct	gtgtactttt	caaaatgagc	ttgttcttcc	ttctgacact	240
catctcaaag	ctccatgggtg	acgcagaggt	ctgttggaagg	tcacagggtc	ctcgcttgca	300
ttggcatacg	gtcctgtagc	atcacttggt	agccactgc	tgttggaagg	aactaagagt	360
attcagggat	agagagctga	aaataggatt	aattnttcc	ttttgactct	cccctcaaga	420
tgtccttgct	ttgggtctgaa	aacctctcct	gacaaactttt	gcccagaagca	aacctctgca	480
cttttctgaa	ctctgagtga	atatattagc	atcttccctt	ctgagccctc	gtactgcca	539

<210> 89
 <211> 855
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (767)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (831)
 <223> n equals a,t,g, or c

<400> 89						
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aaactgcgca	actgcagccg	cctggcctgc	ctagcagcgg	agctccgttg	cacgctgagc	300
gatgactgca	ttccactcac	gtggcgctgc	gacggccacc	cagactgtcc	cgactccagc	360

gacgagctcg	gctgtggaac	caatgagatc	ctcccggaag	gggatgccac	aaccatgggg	420
ccccctgtga	ccttgagag	tgtcacctct	ctcaggaatg	ccacaacccat	ggggccccct	480
gtgaaccctg	gagagtgtcc	cctctgtcgg	gaatgccaca	tcctcctctg	ccggagacca	540
gtctggaagc	ccaactgcct	atgggggttat	tgcagctgct	gcggtgctca	gtgcaagcct	600
ggtcaccgcc	accctcctcc	ttttgtcctg	gctccgagcc	caggagcgcc	tccgcccact	660
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<210> 90

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (593)

<223> n equals a,t,g, or c

<400> 90

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aactggatcc	tacctatggt	aattacctta	tagaactact	aaagttccag	tagttaggcc	420
attcatttaa	tgtgcattag	gcacttttct	gtttatttaa	gagtcatttg	cttttctaattg	480
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<210> 91

<211> 1053

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (653)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1044)

<223> n equals a,t,g, or c

<400> 91

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<210> 92
 <211> 1075
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1060)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1070)
 <223> n equals a,t,g, or c

<400> 92						
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<210> 93
 <211> 2492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1976)
 <223> n equals a,t,g, or c

<400> 93						
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<210> 94

<211> 3058

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3033)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3048)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3056)

<223> n equals a,t,g, or c

<400> 94

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<210> 95

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> n equals a,t,g, or c

<400> 95

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60

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<210> 96

<211> 1580

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1578)

<223> n equals a,t,g, or c

<400> 96

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ctgtgtagct	gaattcccaa	gccctgcatt	gtacagcccc	ccactccctc	caccacctaa	1200
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<210> 99

<211> 447

<212> DNA

<213> Homo sapiens

<400> 99

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<210> 100

<211> 611

<212> DNA

<213> Homo sapiens

<400> 100

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cctggcgggt	ccgtgtgaca	tgtccaagtc	cgtctcgctg	ctctccaagc	accgaggggac	420
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ggagggaggc	accgaggggg	aagggacgga	ggaggggtgag	gagacagagg	gcgaggaaga	540
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<210> 101

<211> 609

<212> DNA

<213> Homo sapiens

<400> 101

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<210> 102
 <211> 1770
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (524)
 <223> n equals a,t,g, or c

<400> 102						
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<210> 103
 <211> 1832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1775)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<220>
 <221> SITE
 <222> (2215)
 <223> n equals a,t,g, or c

<400> 104

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aagaaaagaa	gatacatatg	ttcatttttaa	tgtggacatt	gagctccaga	agcatgttga	240
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<210> 105
 <211> 1822
 <212> DNA
 <213> Homo sapiens

<400> 105

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<210> 106

<211> 1712

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 1969

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (890)
<223> n equals a,t,g, or c

<400> 107

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gtthgtthtt	tgtththta	taatgtthac	aatctgcctc	aatcaactctg	tctthttata	1740
agattccacc	tccagtcctc	tctcctcccc	cctactcagg	cccttgaggc	tattaggaga	1800
tgcttgaaga	actcaacaaa	atcccaatcc	aagtcaaact	ttgcacatat	ttatatttat	1860
attcagaaaa	gaaacatttc	agtaatttat	aataaagagc	actattthtt	aatgaaaaaa	1920
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<210> 108
<211> 1734
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (761)
<223> n equals a,t,g, or c

<400> 108

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cttcttcggc	ttggetcctt	gctcagcctg	tcgtgcctgg	cgctttccgt	gctgctgctg	180
gcgcatgtnc	agacgccgcc	aagaatttcg	aggatgtcag	atgtaaatgt	atctgccctc	240
cctataaaga	aaattctggg	catatttata	ataagaacat	atctcagaaa	gattgtgatt	300
gccttcattg	tgtggagccc	atgcctgtgc	gggggcctga	tgtagaagca	tactgtctac	360
gctgtgaatg	caaatatgaa	gaaagaagct	ctgtcacaat	caaggttacc	attataattt	420
atctctccat	tttgggcctt	ctacttctgt	acatgggtata	tcttactctg	gttgagccca	480
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<210> 109

<211> 2003

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1025)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2003)

<223> n equals a,t,g, or c

<400> 109

cgcagggggc	gcgcggcccg	gggactcgca	ttccccgggt	ccccctccac	cccacgcggc	60
ctggaccatg	gacgccagat	ggtagggcagt	ggtaggtgctg	gctgcgttcc	cctccctagg	120
ggcaggtggg	gagactcccg	aagccctcc	ggagtcattg	accagctat	ggttcttccg	180
atttgtggtg	aatgctgctg	gctatgccag	ntttatggta	cctggctacc	tcctgggtgca	240
gtacttcagg	cggaagaact	acctggagac	cggtaggggc	ctctgctttc	ccctggtgaa	300
agcttggtg	tttggaatg	agcccaaggc	ctctgatgag	gttccctgg	cgccccgaac	360
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gctccaggtg	tcttatctga	cttgggggtgt	gctgcaggaa	agagtgatga	cccgagcta	480
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tgctcctgga	tccttaggct	ctgttccatg	agcctgttgc	aggttttggg	acttttagaaa	1920
tgtaactttt	tgctcttata	attttatttt	attaaattaa	attactgcaa	aaaaaaaaaa	1980
aaaaaaatcg	ggggggggcc	cgn				2003

<210> 110

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1208)

<223> n equals a,t,g, or c

<400> 110

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ctcagggcta	ctggctgggg	tggaaagtga	tgctgggtca	ccccccatcc	gcaacgtcac	180
tgtggcctac	aagtccaca	tggggctcta	tggtagact	gggcggcttt	tactgagag	240
ctgcagcatc	tctcccaagc	tccgctccat	cgtgtgtac	tatgacaacc	cccacatggg	300
gccccctgat	aagtgccgat	gtgccgtggg	cagcatcctg	agtgaagggt	aggaatcgcc	360
ctccccctgag	ctcatcgacc	tctaccagaa	atttggtctc	aagggtgttct	ccttcccggc	420
accagccat	gtggtgacag	ccaccttccc	ctacaccacc	attctgtcca	tctggctggc	480
taccgcccgt	gtccatcctg	ccttggacac	ctacatcaag	gagcgggaagc	tgtgtgccta	540
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ccctgagaag	ggcaaggagt	aacccatggc	ctgcacctc	cctgcaagtgc	agttgctgag	1020
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tcgcgccact	gcgaagtttg	tcgcctcctc	cgggggtctc	ctccgggtkc	acggctcagt	1920
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<210> 112
 <211> 1785
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (924)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1749)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1761)
 <223> n equals a,t,g, or c

<400> 112						
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agcaggagga	ggggaggaga	gagtggggct	cctctatcgg	gacccctcc	ccatgtggat	180
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<210> 113
 <211> 1842
 <212> DNA

<213> Homo sapiens

<400> 113

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gccgcgcgg	cttctgctgc	tgctgctgct	gcmgctgttg	ttagtcaccg	cggagccgcc	180
gaaacctgca	ggagtctact	atgcaactgc	atactggatg	cctgctgaaa	agacagtaca	240
agtcaaaaat	gtaatggaca	agaatgggga	cgctatggc	ttttacaata	actctgtgaa	300
aaccacaggc	tggggcatcc	tggagatcag	agctggctat	ggctctcaaa	ccctgagcaa	360
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aggggatga	cggactagaa	gactgtaaat	aagataccaa	aggcactatt	ttagctatgt	1800
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<210> 114

<211> 1960

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (563)

<223> n equals a,t,g, or c

<400> 114

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acctgcagct	gtgccacggc	atcgaatacc	agaacatgcg	gctgcccac	ctgctggggc	360
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ccccggctat	gtccgccttc	ggnttccctc	ggccgcagac	gcttgagtgc	gaccgtttcc	600
cccaggacaa	cgaacctttg	atccccctcg	ctagcagcga	ccacctcctg	ccagccacgc	660
aggaagctcc	aaagggtatgt	gaagcctgca	aaaataaaaa	tgatgatgac	aacgacataa	720
tggaaacgct	ttgtaaaaat	gattttgcac	tgaaaaataa	agtgaaggag	ataacctaca	780
tcaaccgaga	tacaaaaatc	atcctggaga	ccaagagcaa	gaccatttac	aagctgaacg	840
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<400> 116

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aaccacccca	tggacgcaga	agttactaag	gccaagcttc	tggggtttgg	ctctgctctc	180
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gccctgcagg	tgggctgtct	gcttcggctg	gagcccaatg	cccaggccca	gatgtaccgg	300
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aacagcccca	tgtctgtgtc	catcacccan	tgntaggtag	tcaaagaagt	gggggtgaggg	780
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<210> 117

<211> 776

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (750)

<223> n equals a,t,g, or c

<400> 117

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<210> 118

<211> 453

<212> DNA

<213> Homo sapiens

<400> 118

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gaaagatctc	ataagtaatg	ttttatgttc	tttckgtctc	tcytcttckg	ttgttcttgg	240
cttggtgggt	gtgtttgkgt	ttgttaactg	gaaaattgct	ataagccagt	tgtcyckaak	300
tttwaacaa	gaattagaaa	aaccataaaa	tcytctggcc	yatgcacatk	gtcccygttt	360
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<210> 119

<211> 2016

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (697)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1998)

<223> n equals a,t,g, or c

<400> 119

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ccaggcagcc	gaggacatga	agctgtttga	tgccagtccc	accttctttg	ctttcctact	360
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aaaaaaaaaa	aaaaaaanct	cgagggggggg	ccccgg			2016

<210> 120

<211> 2136

<212> DNA

<213> Homo sapiens

<400> 120

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actccgcgcc tgggacgatt tcttcccggg ttccgatcgc tttgcccgcc cggacttcag      180
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cctgggtggtg gctgccatga tgatttccat tgtgggggtt ctgagtcctt tcaacatgat      300
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aaaaaaaaaaa aaaaamwagg ggggcccggt wcccgag      2136

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<210> 121

<211> 219

<212> DNA

<213> Homo sapiens

<400> 121

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gccctagtat ctgggcagct gtgcatggag atagccagag gaaacatttt ttttcttaat      60
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ggtttcttct acagtagttt atgtaaatgt tgttttgtcc ttgtcgttct cagtagaatt     180
ggttctgtaa acgaaacctg gtccctgtaat ttcagtata      219

```

<210> 122

<211> 1686

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (622)

<223> n equals a,t,g, or c

<400> 122
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gaagag 1686

<210> 123

<211> 1211

<212> DNA

<213> Homo sapiens

<400> 123
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aaaaaaaaa a 1211

<210> 124
 <211> 1804
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (550)
 <223> n equals a,t,g, or c

<400> 124
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 gcag 1804

<210> 125
 <211> 1282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1276)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1277)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1282)

<223> n equals a,t,g, or c

<400> 125

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<210> 126

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (803)

<223> n equals a,t,g, or c

<400> 126

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<210> 127

<211> 737

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (491)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (716)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (735)

<223> n equals a,t,g, or c

<400> 127

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ggacctgccca	ctgtggcgctg	cggtctcccc	gcgcgcgag	gccgcgamct	ntgccacgtg	480
gaccgcgcgc	ngggcgctmc	cctgggtggcg	atggcgcggc	actggcgagc	actgcgkggg	540
ctttctctcct	tgttggttgc	tgagtgggcg	gccaagggga	gaaaaggagc	cgcttytgcc	600
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<210> 128

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 128

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```

<210> 129
<211> 2713
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (424)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (444)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (572)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (577)
<223> n equals a,t,g, or c

```

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<400> 129
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ccatcggaag ggtggggtgc caggcacttt tgccaatcgt gatttccccc cttctctact 240
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<210> 130
<211> 1011
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (516)
<223> n equals a,t,g, or c

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<220>
 <221> SITE
 <222> (985)
 <223> n equals a,t,g, or c

<400> 130
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 gcatgctgac aagggactgt agatttaatg atgctgtttc aagaatacac accaaaacaa 180
 tatgtcagct tccctttggc ctgcagtttg taccaaatcc ttaattttty ytgaatgagc 240
 aagcttctct taaaagatgc tctctagtca tttggtctca tggcagtaag cctcatgtat 300
 actaaggaga gtcttccagg tgtgacaatc aggatataga aaaacaaacg tagtgtntgg 360
 gatctgtttg gagactggga tgggaacaag ttcatttact taggggtcag agagtctcga 420
 ccagaggagg ccattcccag tcctaatacag caccttccag agacaaggct gcaggccctg 480
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 ccttgcaccc ttttcttgtg taaagtattt atttttgtca aattgcagga aacatcaggc 600
 accacagtgc atgaaaaatc tttcacagct agaaattgaa agggccttgg gtatagagag 660
 cagctcagaa gtcacccag ccctctgaat ctctgtgtct atgttttatt tcttaccttt 720
 aatttttcca gcatttccac catgggcatt caggctctcc acactcttca ctattatctc 780
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 taaggggttt agataatcag taaccataac ccctgaagct gtgactgcc aacatctcaa 900
 atgaaatgtt gtrgccatca gagactcaaa aggaagtaag gattttaca gacagattaa 960
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<210> 131
 <211> 2278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (956)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1062)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1290)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1911)
 <223> n equals a,t,g, or c

<400> 131
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 ccgccggagc agagccgggt ccagcccatg accgcctcca actggacgct ggtgatggag 180
 ggcgagtggg tgctgaaatt ttacgccccca tgggtgtccat cctgccagca gactgattca 240
 gaatgggagg cttttgcaaa gaatgggtgaa atacttcaga tcagtgtggg gaaggtagat 300
 gtcattcaag aaccaggttt gagtggccgc ttctttgtca ccactctccc agcatttttt 360
 catgcaaagg atgggatatt ccgcccgttat cgtggcccag gaatcttcga agacctgcag 420
 aattatatct tagagaagaa atggcaatca gtcgagcctc tgactggctg gaaatccccg 480
 gcttctctaa cgatgtctgg aatggctggg ctttttagca tctctggcaa gatatggcat 540
 cttcacaaact atttcacagt gactcttgga attcctgctt ggtgttctta tgtctttttc 600
 gtcatagcca ccttgggttt tggccttttt atgggtctgg tcttgggtgt aatatcagaa 660

```
<210> 132
<211> 1088
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (998)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1049)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1050)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1056)
<223> n equals a,t,g, or c
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<400> 132
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tgagtgcagt	cctaggagga	tttttctaca	tccgcgacta	caccctcctc	gtcacctcgg	300
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gtagtcatgt	gataataaac	tctcatgtta	ttgttccnaa	aaaaaaaaaa	aaaaaaaaat	1020
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taaaaggg						1088

<210> 133
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 133						
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cccagtcac	catgatccat	ctgggtcaca	tcctcttcc	gcttttgctc	ccagtggctg	180
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gcttggacct	ttgacttctg	accctctcat	cctggatggt	gtgtggtggc	acaggaacc	480
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<210> 134
 <211> 467
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (240)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 134
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 1 5 10 15

Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser Ala Thr

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Arg	Phe	Asp	Pro	Thr	Trp	Glu	Ser	Leu	Asp	Ala	Arg	Gln	Leu	Pro	Ala
		35					40					45			
Trp	Phe	Asp	Gln	Ala	Lys	Phe	Gly	Ile	Phe	Ile	His	Trp	Gly	Val	Phe
	50					55					60				
Ser	Val	Pro	Ser	Phe	Gly	Ser	Glu	Trp	Phe	Trp	Trp	Tyr	Trp	Gln	Lys
	65				70					75					80
Glu	Lys	Ile	Pro	Lys	Tyr	Val	Glu	Phe	Met	Lys	Asp	Asn	Tyr	Pro	Pro
				85					90					95	
Xaa	Phe	Lys	Tyr	Glu	Asp	Phe	Gly	Pro	Leu	Phe	Thr	Ala	Lys	Phe	Phe
			100					105					110		
Asn	Ala	Asn	Gln	Trp	Ala	Xaa	Ile	Phe	Gln	Ala	Ser	Gly	Ala	Lys	Tyr
		115					120					125			
Ile	Val	Leu	Thr	Ser	Lys	His	His	Glu	Gly	Phe	Thr	Leu	Trp	Gly	Ser
	130					135					140				
Glu	Tyr	Ser	Trp	Asn	Trp	Asn	Ala	Ile	Asp	Glu	Gly	Pro	Lys	Arg	Asp
145					150					155					160
Ile	Val	Lys	Glu	Leu	Glu	Val	Ala	Ile	Arg	Asn	Arg	Thr	Asp	Leu	Arg
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Phe	Gly	Leu	Tyr	Tyr	Ser	Leu	Phe	Glu	Trp	Phe	His	Pro	Leu	Phe	Leu
			180					185					190		
Glu	Asp	Glu	Ser	Ser	Ser	Phe	His	Lys	Arg	Gln	Phe	Pro	Val	Ser	Lys
		195					200					205			
Thr	Leu	Pro	Glu	Leu	Tyr	Glu	Leu	Val	Asn	Asn	Tyr	Gln	Pro	Glu	Val
	210					215					220				
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225					230					235					240
Thr	Gly	Phe	Leu	Ala	Trp	Leu	Tyr	Asn	Glu	Ser	Pro	Val	Arg	Gly	Thr
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Val	Val	Thr	Asn	Asp	Arg	Trp	Gly	Ala	Gly	Ser	Ile	Cys	Lys	His	Gly
			260					265					270		
Gly	Phe	Tyr	Thr	Cys	Ser	Asp	Arg	Tyr	Asn	Pro	Gly	His	Leu	Leu	Pro
		275					280					285			
His	Lys	Trp	Glu	Asn	Cys	Met	Thr	Ile	Asp	Lys	Leu	Ser	Trp	Gly	Tyr
	290					295					300				
Arg	Arg	Glu	Ala	Gly	Ile	Ser	Asp	Tyr	Leu	Thr	Ile	Glu	Glu	Leu	Val
305					310					315					320
Lys	Gln	Leu	Val	Glu	Thr	Val	Ser	Cys	Gly	Gly	Asn	Leu	Leu	Met	Asn
				325					330					335	
Ile	Gly	Pro	Thr	Leu	Asp	Gly	Thr	Ile	Ser	Val	Val	Phe	Glu	Glu	Arg
			340					345					350		

Leu	Arg	Gln	Met	Gly	Ser	Trp	Leu	Lys	Val	Asn	Gly	Glu	Ala	Ile	Tyr
355						360			365						
Glu	Thr	His	Thr	Trp	Arg	Ser	Gln	Asn	Asp	Thr	Val	Thr	Pro	Asp	Val
370						375			380						
Trp	Tyr	Thr	Ser	Lys	Pro	Lys	Glu	Lys	Leu	Val	Tyr	Ala	Ile	Phe	Leu
385						390			395			400			
Lys	Trp	Pro	Thr	Ser	Gly	Gln	Leu	Phe	Leu	Gly	His	Pro	Lys	Ala	Ile
			405						410			415			
Leu	Gly	Ala	Thr	Glu	Val	Lys	Leu	Leu	Gly	His	Gly	Gln	Pro	Leu	Asn
			420						425			430			
Trp	Ile	Ser	Leu	Glu	Gln	Asn	Gly	Ile	Met	Val	Glu	Leu	Pro	Gln	Leu
			435						440			445			
Thr	Ile	His	Gln	Met	Pro	Cys	Lys	Trp	Gly	Trp	Ala	Leu	Ala	Leu	Thr
450						455			460						
Asn Val Ile															
465															
<210> 135															
<211> 222															
<212> PRT															
<213> Homo sapiens															
<220>															
<221> SITE															
<222> (222)															
<223> Xaa equals stop translation															
<400> 135															
Met	Trp	Ser	Ala	Gly	Arg	Gly	Gly	Ala	Ala	Trp	Pro	Val	Leu	Leu	Gly
1				5				10						15	
Leu	Leu	Leu	Ala	Leu	Leu	Val	Pro	Gly	Gly	Gly	Ala	Ala	Lys	Thr	Gly
			20				25						30		
Ala	Glu	Leu	Val	Thr	Cys	Gly	Ser	Val	Leu	Lys	Leu	Leu	Asn	Thr	His
35						40						45			
His	Arg	Val	Arg	Leu	His	Ser	His	Asp	Ile	Lys	Tyr	Gly	Ser	Gly	Ser
50						55			60						
Gly	Gln	Gln	Ser	Val	Thr	Gly	Val	Glu	Ala	Ser	Asp	Asp	Ala	Asn	Ser
65			70			75			80						
Tyr	Trp	Arg	Ile	Arg	Gly	Gly	Ser	Glu	Gly	Gly	Cys	Arg	Arg	Gly	Ser
			85						90			95			
Pro	Val	Arg	Cys	Gly	Gln	Ala	Val	Arg	Leu	Thr	His	Val	Leu	Thr	Gly
			100			105						110			
Lys	Asn	Leu	His	Thr	His	His	Phe	Pro	Ser	Pro	Leu	Ser	Asn	Asn	Gln
115						120						125			
Glu	Val	Ser	Ala	Phe	Gly	Glu	Asp	Gly	Glu	Gly	Asp	Asp	Leu	Asp	Leu
130			135			140									

Trp Thr Val Arg Cys Ser Gly Gln His Trp Glu Arg Glu Ala Ala Val
 145 150 155 160
 Arg Phe Gln His Val Gly Thr Ser Val Phe Leu Ser Val Thr Gly Glu
 165 170 175
 Gln Tyr Gly Ser Pro Ile Arg Gly Gln His Glu Val His Gly Met Pro
 180 185 190
 Ser Ala Asn Thr His Asn Thr Trp Lys Ala Met Glu Gly Ile Phe Ile
 195 200 205
 Lys Pro Ser Val Glu Pro Ser Ala Gly His Asp Glu Leu Xaa
 210 215 220

<210> 136
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 136
 Met Val Ile Glu Ile Ser Asn Lys Thr Ser Ser Ser Ser Thr Cys Ile
 1 5 10 15
 Leu Val Leu Leu Val Ser Phe Cys Leu Leu Leu Val Pro Ala Met Tyr
 20 25 30
 Ser Ser Asp Thr Arg Gly Ser Leu Pro Ala Glu His Gly Val Leu Ser
 35 40 45
 Arg Gln Leu Arg Ala Leu Pro Ser Glu Asp Pro Tyr Gln Leu Glu Leu
 50 55 60
 Pro Ala Leu Gln Ser Glu Val Pro Lys Asp Ser Thr His Gln Trp Leu
 65 70 75 80
 Asp Gly Ser Asp Cys Val Leu Gln Ala Pro Gly Asn Thr Ser Cys Leu
 85 90 95
 Leu His Tyr Met Pro Gln Ala Pro Ser Ala Glu Pro Pro Leu Glu Trp
 100 105 110
 Pro Phe Pro Asp Leu Phe Ser Glu Pro Leu Cys Arg Gly Pro Ile Leu
 115 120 125
 Pro Leu Gln Ala Asn Leu Thr Arg Lys Gly Gly Trp Leu Pro Thr Gly
 130 135 140
 Ser Pro Ser Val Ile Leu Gln Asp Arg Tyr Ser Gly
 145 150 155

<210> 137
 <211> 233
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (233)

<223> Xaa equals stop translation

<400> 137

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Met Met Ile Leu Phe Asn Leu Leu Ile Phe Leu Cys Gly Ala Ala Leu
 1           5           10           15

Leu Ala Val Gly Ile Trp Val Ser Ile Asp Gly Ala Ser Phe Leu Lys
          20           25           30

Ile Phe Gly Pro Leu Ser Ser Ser Ala Met Gln Phe Val Asn Val Gly
      35           40           45

Tyr Phe Leu Ile Ala Ala Gly Val Val Val Phe Ala Leu Gly Phe Leu
      50           55           60

Gly Cys Tyr Gly Ala Lys Thr Glu Ser Lys Cys Ala Leu Val Thr Phe
      65           70           75           80

Phe Phe Ile Leu Leu Leu Ile Phe Ile Ala Glu Val Ala Ala Ala Val
          85           90           95

Val Ala Leu Val Tyr Thr Thr Met Ala Glu His Phe Leu Thr Leu Leu
      100           105           110

Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp Phe Thr
      115           120           125

Gln Val Trp Asn Thr Thr Met Lys Gly Leu Lys Cys Cys Gly Phe Thr
      130           135           140

Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu Asn Ser Ala
      145           150           155           160

Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr Asn Thr Ala Asn Glu
          165           170           175

Thr Cys Thr Lys Gln Lys Ala His Asp Gln Lys Val Glu Gly Cys Phe
      180           185           190

Asn Gln Leu Leu Tyr Asp Ile Arg Thr Asn Ala Val Thr Val Gly Gly
      195           200           205

Val Ala Ala Gly Ile Gly Gly Leu Glu Leu Ala Ala Met Ile Val Ser
      210           215           220

Met Tyr Leu Tyr Cys Asn Leu Gln Xaa
225           230

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<210> 138

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 138

Met	Gly	Ser	Ser	Arg	Trp	Ser	Val	Ala	Cys	Pro	Thr	Gly	Leu	Gly	Val
1				5					10					15	

Leu	Met	Leu	Gly	Leu	Gly	Gly	Asp	His	Pro	Pro	Gly	Ser	Gln	Val	Asp
			20				25						30		

Pro	Leu	Leu	Met	Gly	Xaa	Cys	Val	Arg	Pro	Xaa	Leu	Pro	Glu	Leu	Thr
			35				40					45			

Ala	Xaa	Trp	Arg	Glu	Xaa	Gln	Xaa	Arg	Ser	Ala	Ser	Ala
	50					55					60	

<210> 139

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139

Met	Gly	Trp	Leu	Phe	Leu	Lys	Val	Leu	Leu	Ala	Gly	Val	Ser	Phe	Ser
1				5						10				15	

Gly	Phe	Leu	Tyr	Pro	Leu	Val	Asp	Phe	Cys	Ile	Ser	Gly	Lys	Thr	Arg
			20				25						30		

Gly	Gln	Lys	Pro	Asn	Phe	Val	Ile	Ile	Leu	Ala	Asp	Asp	Met	Gly	Trp
		35					40					45			

Gly	Asp	Trp	Gly	Ala	Asn	Trp	Ala	Glu	Thr	Lys	Asp	Thr	Ala	Asn	Leu
	50					55					60				

Asp	Lys	Met	Ala	Ser	Glu	Gly	Met	Xaa
	65					70		

<210> 140

<211> 377

<212> PRT

<213> Homo sapiens

<221> SITE

 $\langle 223 \rangle$ Xaa \in

<223> Xaa equals stop translation

Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Leu Leu Leu Leu Met

1 5 10 15

Gln Phe Leu Cys His Glu Phe Leu Arg Gly Asn Pro Arg Val Thr Arg

20	25	30
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Leu Leu Ser Glu Met Arg Ile His Leu Leu Pro Ser Met Asn Pro Asp

35 40 45

Gly Tyr Glu Ile Ala Tyr His Arg Gly Ser Glu Leu Val Gly Trp Ala

50 55 60

Glu Gly Arg Trp Asn Asn Gln Ser Ile Asp Leu Asn His Asn Phe Ala

65 70 75 80

Asp Leu Asn Thr Pro Leu Trp Glu Ala Gln Asp Asp Gly Lys Val Pro

85 90 95

His Ile Val Pro Asn His His Leu Pro Leu Pro Thr Tyr Tyr Thr Leu

1115	1116	VAL	1118	1120	1125	1130	1135	1140	1145	1150	1155	1160	1165	1170	1175	1180	1185	1190	1195	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355	1360	1365	1370	1375	1380	1385	1390	1395	1400	1405	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460	1465	1470	1475	1480	1485	1490	1495	1500	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1560	1565	1570	1575	1580	1585	1590	1595	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	1660	1665	1670	1675	1680	1685	1690	1695	1700	1705	1710	1715	1720	1725	1730	1735	1740	1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1870	1875	1880	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070	2075	2080	2085	2090	2095	2100	2105	2110	2115	2120	2125	2130	2135	2140	2145	2150	2155	2160	2165	2170	2175	2180	2185	2190	2195	2200	2205	2210	2215	2220	2225	2230	2235	2240	2245	2250	2255	2260	2265	2270	2275	2280	2285	2290	2295	2300	2305	2310	2315	2320	2325	2330	2335	2340	2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2495	2500	2505	2510	2515	2520	2525	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580	2585	2590	2595	2600	2605	2610	2615	2620	2625	2630	2635	2640	2645	2650	2655	2660	2665	2670	2675	2680	2685	2690	2695	2700	2705	2710	2715	2720	2725	2730	2735	2740	2745	2750	2755	2760	2765	2770	2775	2780	2785	2790	2795	2800	2805	2810	2815	2820	2825	2830	2835	2840	2845	2850	2855	2860	2865	2870	2875	2880	2885	2890	2895	2900	2905	2910	2915	2920	2925	2930	2935	2940	2945	2950	2955	2960	2965	2970	2975	2980	2985	2990	2995	3000	3005	3010	3015	3020	3025	3030	3035	3040	3045	3050	3055	3060	3065	3070	3075	3080	3085	3090	3095	3100	3105	3110	3115	3120	3125	3130	3135	3140
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Pro Asn Ala Thr Val Ala Pro Glu Thr Arg Ala Val Ile Lys Trp Met

115	120	125
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Lys Arg Ile Pro Phe Val Leu Ser Ala Asn Leu His Gly Gly Glu Leu

Lys Arg Ile Thr Val Leu Ser Ala Asn Leu His
130 135 140

Val Val Ser Tyr Pro Phe Asn Met Thr Arg Thr Pro Trp Ala Ala Arg

var	var	scr	tyr	pro	thr	asp	ser	ala	gly	his	leu	ile	met	val	lys
145					150						155				160

Glu Leu Thr Pro Thr Pro Asp Asp Ala Val Phe Arg Trp Leu Ser Thr

Gla	Bca	III	IIC	III	IIC	ISP	ISP	IIA	VaI	III	IIg	III	IIA	III
				165					170					175

Val Tyr Ala Gly Ser Asn Leu Ala Met Gln Asp Thr Ser Arg Arg Pro

Val	Tyr	Ala	Gly	Ser	Asn	Leu	Ile	Phe	Thr	Met	Lys	Arg	His	Pro	...5
			180					185							190

Cys His Ser Gln Asp Phe Ser Val His Gly Asn Ile Ile Asn Gly Ala

cys	his	ser	gln	asp	thr	ser	val	his	gly	asn	ile	ile
		195					200					205

Asp Trp His Thr Val Pro Gly Ser Met Asn Asp Phe Ser Tyr Leu His

Asp 11p His 11H Val 11V Ser 11S Ser 11S His 11H Asp 11D

Thr Asn Cys Phe Glu Val Thr Val Glu Leu Ser Cys Asp Lys Phe Pro

[illegible]

His Glu Asp Glu Leu Pro Gln Glu Trp Glu Asn Asn Lys Asp Ala Leu

His	Glu	Asn	Glu	Leu	His	Gln	Glu	His	Glu	Asn	Asn	245	His	His	255
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Leu Thr Tyr Leu Glu Gln Val Arg Met Gly Ile Ala Gly Val Val Arg

Leu	Thr	Pyl	Leu	Gln	Gln	Val	Met	Asp	Arg	His	Met	Val	Val	Val
			360					365						270

Asp Lys Asp Thr Glu Leu Gly Ile Ala Asp Ala Val Ile Ala Val Asp

ASP	Eys	ASP	III	Sta	Lea	Sty	Lea	III	ASP	III	Lea	Lea
		275					280					285

Gly Ile Asn His Asn Val Thr Thr Ala Trp Gly Gly Asp Tyr Trp Arg

290 295 300

Leu Leu Thr Pro Gly Asp Tyr Met Val Thr Ala Ser Ala Glu Gly Tyr
 305 310 315 320

His Ser Val Thr Arg Asn Cys Arg Val Thr Phe Glu Glu Gly Pro Phe
 325 330 335

Pro Cys Asn Phe Val Leu Thr Lys Thr Pro Lys Gln Arg Leu Arg Glu
 340 345 350

Leu Leu Ala Ala Gly Ala Lys Val Pro Pro Asp Leu Arg Arg Arg Leu
 355 360 365

Glu Arg Leu Arg Gly Gln Lys Asp Xaa
 370 375

<210> 141
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 141
 Met Ile Cys Leu Ile Leu Leu Leu Gln Ala Val Val Phe Leu Arg Ser
 1 5 10 15

Leu His Val Val His Asn Phe Gln Ile Leu Asp Leu Ser Gly Thr Ser
 20 25 30

Tyr Pro Lys Phe Tyr Gln Thr Leu His Arg Gln
 35 40

<210> 142
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 142
 Met Val His Val Leu Glu Ile Leu Leu Phe Ile Thr Met Gln Ala Val
 1 5 10 15

Ser Phe Pro Phe Gln Thr Gln Ile Asp Thr Cys Asn Thr Gln Asp Pro
 20 25 30

Ala Glu Arg Gln Pro Ala Ser Ile Val
 35 40

<210> 143
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 143
 Met Gly Ser Cys Ser Lys Asn Arg Ser Phe Phe Trp Met Thr Gly Leu
 1 5 10 15

Leu Val Phe Ile Ser Leu Leu Leu Ser Glu Trp Gln Gly Pro Trp Glu
 20 25 30

Gly Arg Ala Ile Gly Glu Gly Trp Ala Ser Trp Ala Leu Thr Asn Gly
 35 40 45

Trp Ala Val Gln Leu Leu Met Ser Leu Gly Asn Asn Thr Glu Lys His
 50 55 60

Ser Val Met Ile Tyr Glu
 65 70

<210> 144

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (483)

<223> Xaa equals stop translation

<400> 144

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln
 1 5 10 15

Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Xaa Ser Tyr Ile
 20 25 30

Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Lys Asp
 35 40 45

Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys
 50 55 60

Thr Gln Val Thr Lys Asn Lys Leu Gly Val Leu Ala Pro Ser Gln Leu
 65 70 75 80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro
 85 90 95

Ser Cys Phe Thr Asn Leu Trp Ala Leu Ile Asn Glu Ala Leu Leu His
 100 105 110

Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser
 115 120 125

His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly
 130 135 140

Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro
 145 150 155 160

Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu
 165 170 175

Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu
 180 185 190

Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala
 195 200 205
 Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp
 210 215 220
 Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro
 225 230 235 240
 Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu
 245 250 255
 Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His
 260 265 270
 Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro
 275 280 285
 His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln
 290 295 300
 Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu
 305 310 315 320
 Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp
 325 330 335
 Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu
 340 345 350
 Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro
 355 360 365
 Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
 370 375 380
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Phe Pro
 385 390 395 400
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
 405 410 415
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
 420 425 430
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
 435 440 445
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
 450 455 460
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
 465 470 475 480
 Pro His Xaa

<210> 145

<211> 226

<212> PRT

<213> Homo sapiens

<400> 145

Met Glu Gly Ala Pro Pro Gly Ser Leu Ala Leu Arg Leu Leu Leu Phe
 1 5 10 15

Val Ala Leu Pro Ala Ser Gly Trp Leu Thr Thr Gly Ala Pro Glu Pro
 20 25 30

Pro Pro Leu Ser Gly Ala Pro Gln Asp Gly Ile Arg Ile Asn Val Thr
 35 40 45

Thr Leu Lys Asp Asp Gly Asp Ile Ser Lys Gln Gln Val Val Leu Asn
 50 55 60

Ile Thr Tyr Glu Ser Gly Gln Val Tyr Val Asn Asp Leu Pro Val Asn
 65 70 75 80

Ser Gly Val Thr Arg Ile Ser Cys Gln Thr Leu Ile Val Lys Asn Glu
 85 90 95

Asn Leu Glu Asn Leu Glu Glu Lys Glu Tyr Phe Gly Ile Val Ser Val
 100 105 110

Arg Ile Leu Val His Glu Trp Pro Met Thr Ser Gly Ser Ser Leu Gln
 115 120 125

Leu Ile Val Ile Gln Glu Glu Val Val Glu Ile Asp Gly Lys Gln Val
 130 135 140

Gln Gln Lys Asp Val Thr Glu Ile Asp Ile Leu Val Lys Asn Arg Gly
 145 150 155 160

Val Leu Arg His Ser Asn Tyr Thr Leu Pro Leu Glu Glu Ser Met Leu
 165 170 175

Tyr Ser Ile Ser Arg Asp Ser Asp Ile Leu Phe Thr Leu Pro Asn Leu
 180 185 190

Ser Lys Lys Glu Ser Val Ser Ser Leu Gln Thr Thr Ser Gln Tyr Leu
 195 200 205

Ile Arg Asn Val Glu Thr Thr Val Asp Glu Asp Val Leu Pro Gly Gln
 210 215 220

Val Thr
 225

<210> 146

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 146

Met Gly Met Gly Ala Phe Gln Ala Phe Phe Trp Val Ile Leu Thr Val
 1 5 10 15

Ser Asn Val Cys Val Leu Phe Lys Met Ser Leu Phe Phe Leu Leu Thr
 20 25 30

Leu Ile Ser Lys Leu His Gly Asp Ala Glu Val Cys Xaa
 35 40 45

<210> 147

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals stop translation

<400> 147

Met Ser Gly Gly Trp Met Ala Gln Val Gly Ala Trp Arg Thr Gly Ala
 1 5 10 15

Leu Gly Leu Ala Leu Leu Leu Leu Leu Gly Leu Gly Leu Gly Leu Glu
 20 25 30

Ala Pro Arg Ala Arg Phe Pro Pro Arg Pro Leu Pro Arg Pro His Pro
 35 40 45

Ser Ser Gly Ser Cys Pro Pro Thr Lys Phe Gln Cys Arg Thr Ser Gly
 50 55 60

Leu Cys Val Pro Leu Thr Trp Arg Cys Asp Arg Thr Trp Thr Ala Ala
 65 70 75 80

Met Ala Ala Met Arg Arg Ser Ala Gly Leu Ser His Val Pro Arg Lys
 85 90 95

Gly Asn Ala His Arg Pro Leu Ala Ser Pro Ala Pro Ala Pro Ala Ser
 100 105 110

Val Thr Ala Leu Gly Glu Leu Thr Arg Asn Cys Ala Thr Ala Ala Ala
 115 120 125

Trp Pro Ala Xaa
 130

<210> 148

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

<400> 148

Met Glu Ala Thr Leu Glu Gln His Leu Glu Asp Thr Met Lys Asn Pro
 1 5 10 15

Ser Ile Val Gly Val Leu Cys Thr Asp Ser Gln Gly Leu Asn Leu Gly
 20 25 30

Cys Arg Gly Thr Leu Ser Asp Glu His Ala Gly Val Ile Ser Val Leu
 35 40 45
 Ala Gln Gln Ala Ala Lys Leu Thr Ser Asp Pro Thr Asp Ile Pro Val
 50 55 60
 Val Cys Leu Glu Ser Asp Asn Gly Asn Ile Met Ile Gln Lys His Asp
 65 70 75 80
 Gly Ile Thr Val Ala Val His Lys Met Ala Ser Xaa
 85 90

<210> 149
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220> '
 <221> SITE
 <222> (165)
 <223> Xaa equals stop translation

<400> 149
 Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
 1 5 10 15
 Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
 20 25 30
 Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
 35 40 45
 Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
 50 55 60
 Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
 65 70 75 80
 Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
 85 90 95
 Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110
 Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
 115 120 125
 Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
 130 135 140
 Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
 145 150 155 160
 Arg Ser Ser Ser Xaa
 165

<210> 150
 <211> 139
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals stop translation

<400> 150

Met Ile Ser Leu Thr Asp Thr Gln Lys Ile Gly Met Gly Leu Thr Gly
1 5 10 15

Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile Leu Phe Phe Asp Lys
20 25 30

Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val Ala Gly Leu Ala Phe
35 40 45

Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe Phe Gln Lys His Lys
50 55 60

Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val Phe Val Val Leu Ile
65 70 75 80

Gly Trp Pro Leu Ile Gly Met Ile Phe Glu Ile Tyr Gly Phe Phe Leu
85 90 95

Leu Phe Arg Gly Phe Phe Pro Val Val Val Gly Phe Ile Arg Arg Val
100 105 110

Pro Val Leu Gly Ser Leu Leu Asn Leu Pro Gly Ile Arg Ser Phe Val
115 120 125

Asp Lys Val Gly Glu Ser Asn Asn Met Val Xaa
130 135

<210> 151

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met Ser Ala Pro Gln Thr Arg Ile Ser Arg Ala Leu Val Leu Leu Phe
1 5 10 15

Leu Ala Pro Thr Leu Leu Ser Leu Gly His Gly Ile His Pro Ile Asn
20 25 30

Thr Ala Thr Pro Tyr Xaa Thr Asp Gln Ala Lys Leu Ala Pro Gly Thr
35 40 45

Lys Glu Leu Asn His Asp Gln Ser Val Thr
50 55

<210> 152

<211> 48

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals stop translation

<400> 152
 Met Ile Arg Lys Leu His Lys Ile Ile Val Phe Ser Pro Arg Val Ile
 1 5 10 15
 Val Leu Leu Asn Cys Phe Phe Phe Ile Lys Ala Lys Phe Val Leu Tyr
 20 25 30
 Ile Phe Val Phe His Val Leu Asp Gly Ser Ile Ser Tyr Pro Val Xaa
 35 40 45

<210> 153
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 153
 Met Leu Leu Asn Gln His Phe Lys Ile Phe Gly Ser Leu Ile His Met
 1 5 10 15
 Asn Leu Leu Phe Ala Leu Ile Ser Leu Gly Ser Ser Asn Leu Ser Gly
 20 25 30
 Val Gln Phe Cys Cys Glu Thr Val Gln Xaa
 35 40

<210> 154
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
 Met Leu Ser Leu Ser Phe Leu Leu Arg Arg Val Leu Phe Leu Gly Phe
 1 5 10 15

Leu Gln Ala Ser Val Gly Glu Lys Lys Ser Leu Arg Xaa Leu Asn Tyr
 20 25 30
 Ser Val Pro His Pro Met Leu Xaa His Pro Pro Pro Asp Thr Ala Gln
 35 40 45
 Val Pro Pro Arg Leu Glu Arg Ser Leu Leu Gln Gln Glu Leu Trp Thr
 50 55 60
 Pro Gly Pro His His Ser Asn Ile
 65 70

<210> 155
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals stop translation

<400> 155
 Met Gln Pro Leu Asn Phe Ser Ser Thr Glu Cys Ser Ser Phe Ser Pro
 1 5 10 15
 Pro Thr Thr Val Ile Leu Leu Ile Leu Leu Cys Phe Glu Gly Leu Leu
 20 25 30
 Phe Leu Ile Phe Thr Ser Val Met Phe Gly Thr Gln Val His Ser Ile
 35 40 45
 Cys Thr Asp Glu Thr Gly Ile Glu Gln Leu Lys Lys Glu Glu Arg Arg
 50 55 60
 Trp Ala Lys Lys Thr Lys Trp Met Asn Met Lys Ala Val Phe Gly His
 65 70 75 80
 Pro Phe Ser Leu Gly Trp Ala Ser Pro Phe Ala Thr Pro Asp Gln Gly
 85 90 95
 Lys Ala Asp Pro Tyr Gln Tyr Val Val Xaa
 100 105

<210> 156
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 156
 Met Tyr Thr Asn His Phe Asn Leu Tyr Leu Lys Tyr Ile Leu Leu Ile
 1 5 10 15
 Ile Leu Ile Leu Asn Met Thr Asn Ser Ser Ser Arg Tyr
 20 25

<210> 157
 <211> 53
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 157

Met Asn Glu Leu Leu Leu Phe Phe Phe Phe Phe Phe Phe Thr Phe
1 5 10 15

Cys Ile Glu Thr Asn Ser Phe Lys Gln Thr Tyr Tyr Tyr Tyr Phe Leu
20 25 30

Gln Asn Ile Tyr Met Glu Met Leu Pro Pro Pro Val Asn Pro Pro Val
35 40 45

Pro Pro Trp Gly Xaa
50

<210> 158

<211> 75

<212> PRT

<213> Homo sapiens

<400> 158

Met Tyr Ala Val Tyr Gln Gln Leu Ala Gln Leu Thr Leu Met Val Thr
1 5 10 15

Leu Leu Ala Pro Ile Leu Pro Asp Glu Gln Ser Glu Val Phe Glu Ala
20 25 30

Leu Ser Asn Leu Pro Lys Val Thr Trp Leu Gly Ser Asn Ser Pro Ser
35 40 45

Ser Glu Met Pro Glu Pro Gly Arg Phe Val Ile Val His His Gln Leu
50 55 60

Ser Ala Ala Ser His Ser Ser Ser Gln Leu Ala
65 70 75

<210> 159

<211> 81

<212> PRT

<213> Homo sapiens

<400> 159

Met Trp Pro Pro Leu Leu Leu Leu Leu Leu Leu Pro Ala Ala Pro
1 5 10 15

Val Pro Thr Ala Lys Ala Ala Pro His Pro Asp Ala Asn Thr Gln Glu
20 25 30

Gly Leu Gln Asn Leu Leu Gln Gly Val Gly Ala Gly Gly Asp Gly Glu
35 40 45

Leu Arg Ala Asp Ser His Leu Ala Pro Gly Ser Gly Cys Ile Asp Gly
50 55 60

Ala Val Val Ala Thr Arg Pro Glu Ser Arg Gly Gly Arg Pro Ala Val

65

70

75

80

Pro

<210> 160

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals stop translation

<400> 160

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
 1 5 10 15

Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
 20 25 30

Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
 35 40 45

Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
 50 55 60

Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
 65 70 75 80

Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
 85 90 95

Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
 100 105 110

Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
 115 120 125

Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala Xaa
 130 135

<210> 161

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals stop translation

<400> 161

Met Leu Gly Cys Gly Ile Pro Ala Leu Gly Leu Leu Leu Leu Gln
 1 5 10 15

Gly Ser Ala Asp Gly Asn Gly Ile Gln Gly Phe Phe Tyr Pro Trp Ser
 20 25 30

Cys Glu Gly Asp Ile Trp Asp Arg Glu Ser Cys Gly Gly Gln Ala Ala
35 40 45

Ile Asp Ser Pro Asn Leu Cys Leu Arg Leu Arg Cys Cys Tyr Arg Asn
50 55 60

Gly Val Cys Tyr His Gln Arg Pro Asp Glu Asn Val Arg Arg Lys His
65 70 75 80

Met Trp Ala Leu Val Trp Thr Cys Ser Gly Leu Leu Leu Leu Ser Cys
85 90 95

Ser Ile Cys Leu Phe Trp Trp Ala Lys Arg Arg Asp Val Leu His Met
100 105 110

Pro Gly Phe Leu Ala Gly Pro Cys Asp Met Ser Lys Ser Val Ser Leu
115 120 125

Leu Ser Lys His Arg Gly Thr Lys Lys Thr Pro Ser Thr Gly Ser Val
130 135 140

Pro Val Ala Leu Ser Lys Glu Ser Arg Asp Val Glu Gly Gly Thr Glu
145 150 155 160

Gly Glu Gly Thr Glu Glu Gly Glu Glu Thr Glu Gly Glu Glu Glu Glu
165 170 175

Asp Xaa

<210> 162

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 162

Met Glu Ala Val Phe Thr Val Phe Phe Phe Val Val Val Leu Phe Leu
1 5 10 15

Lys Asn Thr Glu Gly Ala Lys Leu Phe Cys Thr Leu Tyr Pro Ala Ala
20 25 30

Ser Ser Gly Gln Ser Gln Gly Pro Gly Leu Glu Lys Pro Asp Ser Gln
35 40 45

Glu Cys Ile Ile Asp Pro Cys Ser Tyr Pro Ile Ala Leu Gly Ala Gly
50 55 60

Thr Glu Pro Gly Cys Lys Ile Xaa
65 70

<210> 163

<211> 67

<212> PRT

<213> Homo sapiens

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<400> 164
Met Gly Phe Gly Ala Thr Leu Ala Val Gly Leu Thr Ile Phe Val Leu
  1          5          10          15

Ser Val Val Thr Ile Ile Ile Cys Phe Thr Cys Ser Cys Cys Cys Leu
      20          25          30

Tyr Lys Thr Cys Arg Arg Pro Arg Pro Val Val Thr Thr Thr Thr Ser
      35          40          45

Thr Thr Val Val His Ala Pro Tyr Pro Gln Pro Pro Ser Val Pro Pro
  50          55          60

Ser Tyr Pro Gly Pro Ser Tyr Gln Gly Tyr His Thr Met Pro Pro Gln

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<210> 165
<211> 104
<212> PRT
<213> Homo sapiens
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<400> 165
Met Ile Ile Leu Val Phe Ile Ala Phe Phe Ile Pro Leu Gln Lys Thr
  1             5             10             15

Ile Gly Lys Ile Ala Thr Cys Leu Glu Leu Arg Ser Ala Ala Leu Gln
      20             25             30

Ser Thr Gln Ser Gln Glu Glu Phe Lys Leu Glu Asp Leu Lys Lys Leu
      35             40             45

Glu Pro Ile Leu Lys Asn Ile Leu Thr Tyr Asn Lys Glu Phe Pro Phe
      50             55             60

Asp Val Gln Pro Val Pro Leu Arg Arg Ile Leu Ala Pro Gly Glu Glu
      65             70             75             80

Glu Asn Leu Glu Phe Glu Glu Asp Glu Glu Glu Gly Gly Ala Gly Ala
      85             90             95

Gly Leu Leu Ile Leu Ser Cys Xaa
      100

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<400> 166
Met Ala Gly Thr Met Val Ile Val Val Val Val Val Val Gly Glu Val
  1             5             10             15

Val Val Glu Ala Glu Val Val Val Gln Ala Arg Glu Glu Ala Gly Glu
      20             25             30

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<210> 167
<211> 93
<212> PRT
<213> Homo sapiens
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<210> 168
<211> 58
<212> PRT
<213> Homo sapiens
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<400> 168
Met Gly Trp Ser Ala Gly Leu Leu Phe Leu Leu Ile Leu Tyr Leu Pro
  1                               10                      15

Val Pro Gly Trp Met Glu Arg Glu Asp Gly Glu Thr Gly His Leu Ser
      20                      25

Pro Gln Ala Pro Gly Arg Glu Tyr Arg Gly Phe Tyr Ser Val Pro Pro
      35                      40                      45

Asp Tyr Val Trp Leu Arg Asp Ser Pro Xaa
  50                      55

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<210> 169
 <211> 232
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (232)
 <223> Xaa equals stop translation

<400> 169
 Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser
 1 5 10 15
 Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Leu Ala His Cys Gln Thr
 20 25 30
 Pro Pro Arg Ile Ser Arg Met Ser Asp Val Asn Val Ser Ala Leu Pro
 35 40 45
 Ile Lys Lys Asn Ser Gly His Ile Tyr Asn Lys Asn Ile Ser Gln Lys
 50 55 60
 Asp Cys Asp Cys Leu His Val Val Glu Pro Met Pro Val Arg Gly Pro
 65 70 75 80
 Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu Cys Lys Tyr Glu Glu Arg
 85 90 95
 Ser Ser Val Thr Ile Lys Val Thr Ile Ile Ile Tyr Leu Ser Ile Leu
 100 105 110
 Gly Leu Leu Leu Leu Tyr Met Val Tyr Leu Thr Leu Val Glu Pro Ile
 115 120 125
 Leu Lys Arg Arg Leu Phe Gly His Ala Gln Leu Ile Gln Ser Asp Asp
 130 135 140
 Asp Ile Gly Asp His Gln Pro Phe Ala Asn Ala His Asp Val Leu Ala
 145 150 155 160
 Arg Ser Arg Ser Arg Ala Asn Val Leu Asn Lys Val Glu Tyr Gly Thr
 165 170 175
 Ala Ala Leu Glu Ala Ser Ser Pro Arg Ala Ala Lys Ser Leu Ser Leu
 180 185 190
 Thr Gly Met Leu Ser Ser Ala Asn Trp Gly Ile Glu Phe Lys Val Thr
 195 200 205
 Arg Lys Lys Gln Ala Asp Asn Trp Lys Gly Thr Asp Trp Val Leu Leu
 210 215 220
 Gly Phe Ile Leu Ile Pro Cys Xaa
 225 230

<210> 170
 <211> 72
 <212> PRT
 <213> Homo sapiens

Met Ser Ala Ile Phe Asn Phe Gln Ser Leu Leu Thr Val Ile Leu Leu
1 5 10 15

Leu Ile Cys Thr Cys Ala Tyr Ile Arg Ser Leu Ala Pro Ser Leu Leu
20 25 30

Asp Arg Asn Lys Thr Gly Leu Leu Gly Ile Phe Trp Lys Cys Ala Arg
35 40 45

Ile Gly Glu Arg Lys Ser Pro Tyr Val Ala Val Cys Cys Ile Val Met
50 55 60

Ala Phe Ser Ile Leu Phe Ile Gln
65 70

<211> 65

<212> PRT

<213> Homo sapiens

Met Gly Thr Phe Ser Leu Ser Leu Phe Gly Leu Met Gly Val Ala Phe
1 5 10 15

Gly Met Asn Leu Glu Ser Ser Leu Glu Glu Asp His Arg Ile Phe Trp
20 25 30

Leu Ile Thr Gly Ile Met Phe Met Gly Ser Gly Leu Ile Trp Arg Arg
35 40 45

Leu Leu Ser Phe Leu Gly Arg Gln Leu Glu Ala Pro Leu Pro Pro Met
50 55 60

Val
65

<211> 75

<212> PRT

<213> Homo sapiens

Met Tyr Lys Gly Lys Leu Val Ile Val Leu Ile Leu Leu Leu Leu Pro
1 5 10 15

Ser His Phe Met Phe Leu Thr Gln Cys Lys Glu Ile Lys His Asn Leu
20 25 30

Lys Lys Asn Met Ser Leu Leu Leu Phe Thr Ile Lys Ser Trp Leu Tyr
35 40 45

Ser Ala Ser Leu Gly Ile Leu Tyr Asn Trp Gln His Leu Thr Ala Gln
50 55 60

Val Asp Gln Cys Thr Ser Leu Ile Leu Ile His
65 70 75

<400> 173																
Met	Val	Gly	His	Glu	Met	Ala	Ser	Xaa	Ser	Ser	Asn	Thr	Ser	Leu	Pro	
1				5					10					15		
Phe	Ser	Asn	Met	Gly	Asn	Pro	Met	Asn	Thr	Thr	Gln	Leu	Gly	Lys	Ser	
			20					25					30			
Leu	Phe	Gln	Trp	Gln	Val	Glu	Gln	Glu	Glu	Ser	Lys	Leu	Ala	Asn	Ile	
		35					40					45				
Ser	Gln	Asp	Gln	Phe	Leu	Ser	Lys	Asp	Ala	Asp	Gly	Asp	Thr	Phe	Leu	
	50					55					60					
His	Ile	Ala	Val	Ala	Gln	Gly	Arg	Arg	Ala	Leu	Ser	Tyr	Val	Leu	Ala	
65					70					75					80	
Arg	Lys	Met	Asn	Ala	Leu	His	Met	Leu	Asp	Ile	Lys	Glu	His	Asn	Gly	
				85					90					95		
Gln	Ser	Ala	Phe	Gln	Val	Ala	Val	Ala	Ala	Asn	Gln	His	Leu	Ile	Val	
			100					105					110			
Gln	Asp	Leu	Val	Asn	Ile	Gly	Ala	Gln	Val	Asn	Thr	Thr	Asp	Cys	Trp	
		115					120					125				
Gly	Arg	Thr	Pro	Leu	His	Val	Cys	Ala	Glu	Lys	Gly	His	Ser	Gln	Val	
	130					135					140					
Leu	Gln	Ala	Ile	Gln	Lys	Gly	Ala	Val	Gly	Ser	Asn	Gln	Phe	Val	Asp	
145					150					155					160	
Leu	Glu	Ala	Thr	Asn	Tyr	Asp	Gly	Leu	Thr	Pro	Leu	His	Cys	Ala	Val	
				165					170					175		
Ile	Ala	His	Asn	Ala	Val	Val	His	Glu	Leu	Gln	Arg	Asn	Gln	Gln	Pro	
			180					185					190			
His	Ser	Pro	Glu	Val	Gln	Glu	Leu	Leu	Leu	Lys	Asn	Lys	Ser	Leu	Val	
		195					200					205				
Asp	Thr	Ile	Lys	Cys	Leu	Ile	Gln	Met	Gly	Ala	Ala	Val	Glu	Ala	Lys	
	210					215					220					
Asp	Arg	Lys	Ser	Gly	Arg	Thr	Ala	Leu	His	Leu	Ala	Ala	Glu	Glu	Ala	
225					230					235					240	
Asn	Leu	Glu	Leu	Ile	Arg	Leu	Phe	Leu	Glu	Leu	Pro	Ser	Cys	Leu	Ser	
				245					250					255		
Phe	Val	Asn	Ala	Lys	Ala	Tyr	Asn	Gly	Asn	Thr	Ala	Leu	His	Val	Ala	
			260					265					270			

Ala Ser Leu Gln Tyr Arg Leu Thr Gln Leu Asp Ala Val Arg Leu Leu
 275 280 285

Met Arg Lys Gly Ala Asp Pro Ser Thr Arg Asn Leu Glu Asn Glu Gln
 290 295 300

Pro Val His Leu Val Pro Asp Gly Pro Val Gly Glu Gln Ile Arg Arg
 305 310 315 320

Ile Leu Lys Gly Lys Ser Ile Gln Gln Arg Ala Pro Pro Tyr
 325 330

<210> 174

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals stop translation

<400> 174

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
 20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
 35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
 50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
 65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
 85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
 100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
 115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
 130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
 145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
 165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Cys Gln Pro Val
 180 185 190

Gln Cys Ala Xaa
 195

<210> 175
 <211> 265
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (265)
 <223> Xaa equals stop translation

<400> 175
 Met Ser Asp Leu Leu Leu Leu Gly Leu Ile Gly Gly Leu Thr Leu Leu
 1 5 10 15
 Leu Leu Leu Thr Leu Leu Ala Phe Ala Gly Tyr Ser Gly Leu Leu Ala
 20 25 30
 Gly Val Glu Val Ser Ala Gly Ser Pro Pro Ile Arg Asn Val Thr Val
 35 40 45
 Ala Tyr Lys Phe His Met Gly Leu Tyr Gly Glu Thr Gly Arg Leu Phe
 50 55 60
 Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Arg Ser Ile Ala Val Tyr
 65 70 75 80
 Tyr Asp Asn Pro His Met Val Pro Pro Asp Lys Cys Arg Cys Ala Val
 85 90 95
 Gly Ser Ile Leu Ser Glu Gly Glu Glu Ser Pro Ser Pro Glu Leu Ile
 100 105 110
 Asp Leu Tyr Gln Lys Phe Gly Phe Lys Val Phe Ser Phe Pro Glu Pro
 115 120 125
 Ser His Val Val Thr Ala Thr Phe Pro Leu Thr Pro Pro Phe Cys Pro
 130 135 140
 Ile Trp Leu Gly Tyr Pro Pro Cys Pro Ser Cys Leu Gly His Leu His
 145 150 155 160
 Gln Gly Ala Glu Ala Val Cys Leu Ser Ser Ala Gly Asp Leu Pro Gly
 165 170 175
 Arg Pro Glu Ser Ile Ser Cys Ala His Trp His Gly Gln Gly Asp Phe
 180 185 190
 Tyr Val Pro Glu Met Lys Glu Thr Glu Trp Lys Trp Arg Gly Leu Val
 195 200 205
 Glu Ala Ile Asp Thr Gln Val Asp Gly Thr Gly Ala Asp Thr Met Ser
 210 215 220
 Asp Thr Ser Ser Val Ser Leu Glu Val Ser Pro Gly Ser Arg Glu Thr
 225 230 235 240
 Ser Ala Ala Thr Leu Ser Pro Gly Ala Ser Ser Arg Gly Trp Asp Asp
 245 250 255
 Gly Asp Thr Arg Ser Glu His Ser Xaa

260

265

<210> 176
 <211> 138
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals stop translation

<400> 176
 Met Ala Gln Leu Phe Leu Pro Leu Leu Ala Ala Leu Val Leu Ala Gln
 1 5 10 15
 Ala Pro Ala Ala Leu Ala Asp Val Leu Glu Gly Asp Ser Ser Glu Asp
 20 25 30
 Arg Ala Phe Arg Val Arg Ile Ala Gly Asp Ala Pro Leu Gln Gly Val
 35 40 45
 Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro
 50 55 60
 Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr
 65 70 75 80
 Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val
 85 90 95
 Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala
 100 105 110
 Tyr Pro Ala Ser Leu Thr Asp Val Ser Pro Gly Ala Glu Arg Ala Ala
 115 120 125
 Pro Gln Arg Leu Arg Tyr Leu Ser Leu Xaa
 130 135

<210> 177
 <211> 179
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals stop translation

<400> 177
 Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
 1 5 10 15
 Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr
 20 25 30
 Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
 35 40 45

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Gly Tyr Cys Lys Gly Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
50 55 60

Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
65 70 75 80

Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
85 90 95

Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
100 105 110

Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
115 120 125

Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
130 135 140

Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
145 150 155 160

Thr Val Ala Asn His Phe Leu Gln Met Pro His Arg Leu His Arg Ala
165 170 175

Glu Val Xaa

<210> 178

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals stop translation

<400> 178

Met Thr Arg Gly Gly Pro Gly Gly Arg Pro Gly Leu Pro Gln Pro Pro
1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Leu Pro Leu Leu Leu Val Thr Ala Glu
20 25 30

Pro Pro Lys Pro Ala Gly Val Tyr Tyr Ala Thr Ala Tyr Trp Met Pro
35 40 45

Ala Glu Lys Thr Val Gln Val Lys Asn Val Met Asp Lys Asn Gly Asp
50 55 60

Ala Tyr Gly Phe Tyr Asn Asn Ser Val Lys Thr Thr Gly Trp Gly Ile
65 70 75 80

Leu Glu Ile Arg Ala Gly Tyr Gly Ser Gln Thr Leu Ser Asn Glu Ile
85 90 95

Ile Met Phe Val Ala Gly Phe Leu Glu Gly Tyr Leu Ile Ala Pro His
100 105 110

Met Asn Asp His Tyr Thr Asn Leu Tyr Pro Gln Leu Ile Thr Lys Pro
115 120 125

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Asp Pro Glu Lys Tyr Gln Arg Ile Gln Asp Xaa
145 150 155

<211> 295

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 179

Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala Ser His
1 5 10 15

Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln Pro Asp
20 25 30

Phe Ser Tyr Lys Arg Xaa Asn Cys Lys Pro Ile Pro Val Asn Leu Gln
35 40 45

Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn Leu Leu
50 55 60

Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala Trp Ile
65 70 75 80

Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe Leu Cys
85 90 95

Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr Ile Gln
100 105 110

Pro	Cys	His	Ser	Leu	Cys	Val	Gln	Val	Lys	Asp	Arg	Cys	Ala	Pro	Val
		115					120					125			

Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys Asp Arg
130 135 140

Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser Asp His
145 150 155 160

Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala Cys Lys
165 170 175

Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys Lys Asn
180 185 190

Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile Asn Arg
195 200 205

Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr Lys Leu
210 215 220

Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp Leu Lys

<400> 181																
Met	Ala	Pro	Leu	Leu	Leu	Gln	Leu	Ala	Val	Leu	Gly	Ala	Ala	Leu	Ala	
1				5					10					15		
Ala	Ala	Ala	Leu	Val	Leu	Ile	Ser	Ile	Val	Ala	Phe	Thr	Thr	Ala	Thr	
			20					25					30			
Lys	Met	Pro	Ala	Leu	His	Arg	His	Glu	Glu	Glu	Lys	Phe	Phe	Leu	Asn	
		35					40					45				
Ala	Lys	Gly	Gln	Lys	Glu	Thr	Leu	Pro	Ser	Ile	Trp	Asp	Ser	Pro	Thr	
	50					55					60					
Lys	Gln	Leu	Ser	Val	Val	Val	Pro	Ser	Tyr	Asn	Glu	Glu	Lys	Arg	Leu	
65				70						75					80	
Pro	Val	Met	Met	Asp	Glu	Ala	Leu	Ser	Tyr	Leu	Glu	Lys	Arg	Gln	Lys	
				85					90					95		
Arg	Asp	Pro	Ala	Phe	Thr	Tyr	Glu	Val	Ile	Val	Val	Asp	Asp	Gly	Ser	
			100					105					110			
Lys	Asp	Gln	Thr	Ser	Lys	Val	Ala	Phe	Lys	Tyr	Cys	Gln	Lys	Tyr	Gly	
		115					120					125				
Ser	Asp	Lys	Val	Arg	Val	Ile	Thr	Leu	Val	Lys	Asn	Arg	Gly	Lys	Gly	
	130					135					140					
Gly	Ala	Ile	Arg	Met	Gly	Ile	Phe	Ser	Ser	Arg	Gly	Glu	Lys	Ile	Leu	
145					150					155					160	
Met	Ala	Asp	Ala	Asp	Gly	Ala	Thr	Lys	Phe	Pro	Asp	Val	Glu	Lys	Leu	
				165					170					175		
Glu	Lys	Gly	Leu	Asn	Asp	Leu	Gln	Pro	Trp	Pro	Asn	Gln	Met	Ala	Ile	
			180					185					190			
Ala	Cys	Gly	Ser	Arg	Ala	His	Leu	Glu	Lys	Glu	Ser	Ile	Ala	Gln	Arg	
		195					200					205				
Ser	Tyr	Phe	Arg	Thr	Leu	Leu	Met	Tyr	Gly	Phe	His	Phe	Leu	Val	Trp	
	210					215					220					
Phe	Leu	Cys	Val	Lys	Gly	Ile	Arg	Asp	Thr	Gln	Cys	Gly	Phe	Lys	Leu	
225					230					235					240	

111
Phe Thr Arg Glu Ala Ala Ser Arg Thr Phe Ser Ser Leu His Val Glu
245 250 255
Arg Trp Ala Phe Asp Val Glu Leu Leu Tyr Ile Ala Gln Phe Phe Lys
260 265 270
Ile Pro Ile Ala Glu Ile Ala Val Asn Trp Thr Glu Ile Glu Gly Ser
275 280 285
Lys Leu Val Pro Phe Trp Ser Trp Leu Gln Met Gly Lys Asp Leu Leu
290 295 300
Phe Ile Arg Leu Arg Tyr Leu Thr Gly Ala Trp Arg Leu Glu Gln Thr
305 310 315 320
Arg Lys Met Asn

<210> 182
<211> 47
<212> PRT
<213> Homo sapiens

<400> 182
Met Asp Ile Cys Phe Phe His Tyr Val Leu Leu Phe Phe Leu Val Arg
1 5 10 15
Cys Ala Leu Val Val Leu Ile Leu Leu Cys Gln Gly Trp Gly Asn Gly
20 25 30
Gly Gly Cys Val Gly Arg Val Leu Ile Ile Val Phe Ser Ser Val
35 40 45

<210> 183
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals stop translation

<400> 183
Met Ala Ser Leu Gly His Ile Leu Val Phe Cys Val Gly Leu Leu Thr
1 5 10 15
Met Ala Lys Ala Glu Ser Pro Lys Glu His Asp Pro Phe Thr Tyr Asp
20 25 30
Tyr Gln Ser Leu Gln Ile Gly Gly Leu Val Ile Ala Gly Ile Leu Phe
35 40 45
Ile Leu Gly Ile Leu Ile Val Leu Ser Arg Arg Cys Arg Cys Lys Phe
50 55 60
Asn Gln Gln Gln Arg Thr Gly Glu Pro Asp Glu Glu Glu Gly Thr Phe
65 70 75 80
Arg Ser Ser Ile Arg Arg Leu Ser Thr Arg Arg Arg Xaa

<210> 184
 <211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals stop translation

<400> 184
 Met Xaa Thr Lys Glu Phe Gly Xaa Gly Arg Ala Val Gln Gln Val Leu
 1 5 10 15
 Asn Ile Glu Cys Leu Arg Asp Phe Leu Thr Pro Pro Leu Leu Ser Val
 20 25 30
 Arg Phe Arg Tyr Val Gly Ala Pro Gln Ala Leu Thr Leu Lys Leu Pro
 35 40 45
 Val Thr Xaa Asn Lys Phe Phe Gln Pro Thr Glu Met Ala Ala Gln Asp
 50 55 60
 Phe Phe Gln Arg Trp Lys Gln Leu Ser Leu Pro Gln Gln Glu Ala Gln
 65 70 75 80
 Lys Ile Phe Lys Ala Asn His Pro Met Asp Ala Glu Val Thr Lys Ala
 85 90 95
 Lys Leu Leu Gly Phe Gly Ser Ala Leu Leu Asp Asn Val Asp Pro Asn
 100 105 110
 Pro Glu Asn Phe Val Gly Ala Gly Ile Ile Gln Thr Lys Ala Leu Gln
 115 120 125
 Val Gly Cys Leu Leu Arg Leu Glu Pro Asn Ala Gln Ala Gln Met Tyr
 130 135 140
 Arg Leu Thr Leu Arg Thr Ser Lys Glu Pro Val Ser Arg His Leu Cys
 145 150 155 160
 Glu Leu Leu Ala Gln Gln Phe Xaa
 165

<400> 187

<210> 189
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 189
 Met Gly Ser Arg Ala Glu Leu Cys Thr Leu Leu Gly Gly Phe Ser Phe
 1 5 10 15
 Leu Leu Leu Leu Ile Pro Gly Glu Gly Ala Lys Gly Gly Ser Leu Arg
 20 25 30
 Glu Ser Gln Gly Val Cys Ser Lys Gln Thr Leu Val Val Pro Leu His
 35 40 45
 Tyr Asn Glu Ser Tyr Ser Gln Pro Val Tyr Lys Pro Tyr Leu Thr Leu
 50 55 60
 Cys Ala Gly Ser Ala Ser Ala Ala Leu Thr Gly Pro Cys Thr Ala Leu
 65 70 75 80
 Cys Gly Gly Arg

<210> 190
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals stop translation

<400> 190
 Met Met Gly Val Leu Gln Leu Leu His Ile Phe Trp Ala Tyr Leu Ile
 1 5 10 15
 Leu Arg Met Ala His Lys Phe Ile Thr Gly Lys Leu Val Glu Asp Glu
 20 25 30
 Arg Ser Thr Gly Lys Lys Gln Arg Ala Gln Arg Gly Arg Arg Leu Gln
 35 40 45
 Leu Gly Glu Glu Gln Arg Ala Gly Pro Xaa
 50 55

<210> 191
 <211> 311
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (277)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (311)

<400> 191

Leu Asn Pro Ala Ala Ile Tyr Ala Asn Asn Glu Ile Ser Leu Arg Asp
20 25 30

Val Glu Val Tyr Gly Phe Asp Tyr Asp Tyr Thr Leu Ala Gln Tyr Ala
35 40 45

Asp Ala Leu His Pro Glu Ile Phe Ser Thr Ala Arg Asp Ile Leu Ile
50 55 60

Glu His Tyr Lys Tyr Pro Glu Gly Ile Arg Lys Tyr Asp Tyr Asn Pro
65 70 75 80

Ser Phe Ala Ile Arg Gly Leu His Tyr Asp Ile Gln Lys Ser Leu Leu
85 90 95

Met Lys Ile Asp Ala Phe His Tyr Val Gln Leu Gly Thr Ala Tyr Arg
100 105 110

Gly Leu Gln Pro Val Pro Asp Glu Glu Val Ile Glu Leu Tyr Gly Gly
115 120 125

Thr Gln His Ile Pro Leu Tyr Gln Met Ser Gly Phe Tyr Gly Lys Gly
130 135 140

Pro Ser Ile Lys Gln Phe Met Asp Ile Phe Ser Leu Pro Glu Met Ala
145 150 155 160

Leu Leu Ser Cys Val Val Asp Tyr Phe Leu Gly His Ser Leu Glu Phe
165 170 175

Asp Gln Ala His Leu Tyr Lys Asp Val Thr Asp Ala Ile Arg Asp Val
180 185 190

His Val Lys Gly Leu Met Tyr Gln Trp Ile Glu Gln Asp Met Glu Lys
195 200 205

Tyr Ile Leu Arg Gly Asp Glu Thr Phe Ala Val Leu Ser Arg Leu Val
210 215 220

Ala His Gly Lys Gln Leu Phe Leu Ile Thr Asn Ser Pro Phe Ser Phe
225 230 235 240

Val	Asp	Lys	Gly	Met	Arg	His	Met	Val	Gly	Pro	Asp	Trp	Arg	His	Ser
				245					250					255	

Ser Met Trp Ser Leu Ser Arg Gln Thr Ser Pro Ala Ser Ser Leu Thr
260 265 270

Gly Ala Ser Phe Xaa Glu Asn Ser Met Arg Arg Ala His Phe Ser Gly
275 280 285

Thr Gly Ser Pro Ala Trp Lys Arg Ala Arg Ser Ile Gly Arg Glu Thr
290 295 300

Cys Leu Thr Ser Tyr Ala Xaa
305 310

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<220>
<221> SITE
<222> (318)
<223> Xaa equals stop translation
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<400> 192
Met Asn Trp Glu Leu Leu Leu Trp Leu Leu Val Leu Cys Ala Leu Leu
  1          5          10          15

Leu Leu Leu Val Gln Leu Leu Arg Phe Leu Arg Ala Asp Gly Asp Leu
      20          25          30

Thr Leu Leu Trp Ala Glu Trp Gln Gly Arg Arg Pro Glu Trp Glu Leu
      35          40          45

Thr Asp Met Val Val Trp Val Thr Gly Ala Ser Ser Gly Ile Gly Glu
      50          55          60

Glu Leu Ala Tyr Gln Leu Ser Lys Leu Gly Val Ser Leu Val Leu Ser
      65          70          75          80

Ala Arg Arg Val His Glu Leu Glu Arg Val Lys Arg Arg Cys Leu Glu
      85          90          95

Asn Gly Asn Leu Lys Glu Lys Asp Ile Leu Val Leu Pro Leu Asp Leu
      100          105          110

Thr Asp Thr Gly Ser His Glu Ala Ala Thr Lys Ala Val Leu Gln Glu
      115          120          125

Phe Gly Arg Ile Asp Ile Leu Val Asn Asn Gly Gly Met Ser Gln Arg
      130          135          140

Ser Leu Cys Met Asp Thr Ser Leu Asp Val Tyr Arg Lys Leu Ile Glu
      145          150          155          160

Leu Asn Tyr Leu Gly Thr Val Ser Leu Thr Lys Cys Val Leu Pro His
      165          170          175

Met Ile Glu Arg Lys Gln Gly Lys Ile Val Thr Val Asn Ser Ile Leu
      180          185          190

Gly Ile Ile Ser Val Pro Leu Ser Ile Gly Tyr Cys Ala Ser Lys His
      195          200          205

Ala Leu Arg Gly Phe Phe Asn Gly Leu Arg Thr Glu Leu Ala Thr Tyr
      210          215          220

Pro Gly Ile Ile Val Ser Asn Ile Cys Pro Gly Pro Val Gln Ser Asn
      225          230          235          240

Ile Val Glu Asn Ser Leu Ala Gly Glu Val Thr Lys Thr Ile Gly Asn
      245          250          255

Asn Gly Asp Gln Ser His Lys Met Thr Thr Ser Arg Cys Val Arg Leu

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260

265

270

Met Leu Ile Ser Met Ala Asn Asp Leu Lys Glu Val Trp Ile Ser Glu
 275 280 285

Gln Pro Phe Leu Phe Ser Asn Ile Phe Val Ala Ile His Ala Asn Leu
 290 295 300

Gly Leu Val Asp Asn Gln Gln Asp Gly Glu Glu Lys Asp Xaa
 305 310 315

<210> 193

<211> 53

<212> PRT

<213> Homo sapiens

<400> 193

Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser Phe Leu Phe Gly
 1 5 10 15

Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro Pro Gly Leu Pro
 20 25 30

Pro Pro Ala Ser Leu Leu Cys Cys Ala Val Gln Trp Gly Ala Arg Ala
 35 40 45

Leu Phe Leu Pro Ala
 50

<210> 194

<211> 42

<212> PRT

<213> Homo sapiens

<400> 194

Met Leu Val Thr Cys Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala
 1 5 10 15

Ile Leu Ala Gln Leu Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu
 20 25 30

Thr Ile Trp Tyr Leu Lys Tyr His Trp Pro
 35 40

<210> 195

<211> 96

<212> PRT

<213> Homo sapiens

<400> 195

Met Gly Ala Arg Pro Gly Gly His Pro Gln Lys Trp Ser Phe Leu Trp
 1 5 10 15

Ser Leu Ala Leu Trp Leu Pro Leu Ala Leu Ser Val Ser Leu Phe Leu
 20 25 30

Gly Leu Ser Leu Ser Pro Pro Gln Pro Gly Leu Ser Leu Trp Cys Thr
 35 40 45

Leu Ser Tyr Cys Cys Glu Gln Trp Lys Phe Lys Gly Thr Pro Ser Pro
 50 55 60

Ala Leu Leu Asn Leu Gly Thr Gln Pro Lys Lys Asp Lys Lys Leu Glu
 65 70 75 80

Asp Ser Ile Ala Thr Gln Leu Arg Glu Leu Pro Glu Lys Asn Ser Asn
 85 90 95

<210> 196

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 196

Met Ala Leu Thr Phe Leu Leu Val Leu Leu Thr Leu Ala Thr Ser Ala
 1 5 10 15

His Gly Cys Thr Glu Thr Ser Asp Ala Gly Arg Ala Ser Thr Gly Gly
 20 25 30

Pro Gln Arg Thr Ala Arg Thr Gln Trp Leu Leu Cys Xaa
 35 40 45

<210> 197

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (355)

<223> Xaa equals stop translation

<400> 197

Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser
 1 5 10 15

Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg
 20 25 30

Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser
 35 40 45

Ser Arg His Ala Ala Glu Leu Arg Asp Phe Lys Asn Lys Met Leu Pro
 50 55 60

Leu Leu Glu Val Ala Glu Lys Glu Arg Glu Ala Leu Arg Thr Glu Ala
 65 70 75 80

Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr
 85 90 95

Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys
 100 105 110
 Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys
 115 120 125
 Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser
 130 135 140
 Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys
 145 150 155 160
 Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln
 165 170 175
 Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala
 180 185 190
 Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val
 195 200 205
 Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg
 210 215 220
 Pro Pro Gly Arg Pro Gly Gly Gly Gly Glu Met Glu Asn Thr Leu Gln
 225 230 235 240
 Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val
 245 250 255
 Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr
 260 265 270
 Tyr Ile Asp Leu Ala Ala Asp Glu Glu Gly Leu Trp Ala Val Tyr Ala
 275 280 285
 Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln
 290 295 300
 Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn
 305 310 315 320
 Ala Glu Ala Ala Phe Val Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn
 325 330 335
 Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser
 340 345 350
 Gly Pro Xaa
 355

<210> 198

<211> 74

<212> PRT

<213> Homo sapiens

<400> 198

Met Val Leu Pro Leu Leu Ile Phe Val Leu Leu Pro Lys Val Val Asn
 1 5 10 15

121

Thr Ser Asp Pro Asp Met Arg Arg Glu Met Glu Gln Ser Met Asn Met
20 25 30

Leu Asn Ser Asn His Glu Leu Pro Asp Val Ser Glu Phe Met Thr Arg
35 40 45

Leu Phe Ser Ser Lys Ser Ser Gly Lys Ser Ser Ser Gly Ser Ser Lys
50 55 60

Thr Gly Lys Ser Gly Ala Gly Lys Arg Arg
65 70

<210> 199

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals stop translation

<400> 199

Met Phe Thr Met Leu Cys Ile Asn Gly Thr Thr Pro Arg Pro Leu Pro
1 5 10 15

Val Pro Ser Pro Phe Gly Cys Met Ile Phe Phe Phe Phe Lys Asn Pro
20 25 30

Trp Lys Gln Arg Leu Leu Gln Gly Trp Leu Gly Ala Arg Pro Ile His
35 40 45

Leu Leu Gly Tyr Leu Pro Leu Ser Leu Leu Trp Cys Pro Phe Pro Leu
50 55 60

Pro Cys Ala Arg Cys Ser Val Val Tyr Ile Ser Ser Pro Arg His Gly
65 70 75 80

Ala His Ala Pro Arg Asp Met Ile Leu Ser Leu Val Leu Ala His Gly
85 90 95

Ala Leu Tyr Lys Glu Leu Gly Gly Arg Gly Arg Lys Trp Glu Pro Ser
100 105 110

Xaa

<210> 200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 200

Met Ala Cys Arg Cys Leu Ser Phe Leu Leu Met Gly Thr Phe Leu Ser
1 5 10 15

Val Ser Gln Thr Val Leu Ala Gln Leu Asp Ala Leu Leu Val Phe Pro
20 25 30

Gly Gln Val Ala Gln Leu Ser Cys Thr Leu Ser Pro Gln His Val Thr

35

40

45

Ile Arg Asp Tyr Gly Val Ser Trp Tyr Gln Gln Arg Ala Gly Ser Ala
 50 55 60

Pro Arg Tyr Leu Leu Tyr Tyr Arg Ser Glu Glu Asp His His Arg Pro
 65 70 75 80

Ala Asp Ile Pro Asp Arg Phe Ser Ala Ala Lys Asp Glu Ala His Asn
 85 90 95

Ala Cys Val Leu Thr Ile Ser Pro Val Gln Pro Glu Asp Asp Ala Asp
 100 105 110

Tyr Tyr Cys Ser Val Gly Tyr Gly Phe Ser Pro
 115 120

<210> 201

<211> 315

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (315)

<223> Xaa equals stop translation

<400> 201

Met Ala Gly Gly Arg Cys Gly Pro Xaa Leu Thr Ala Leu Leu Ala Ala
 1 5 10 15

Trp Ile Ala Ala Val Ala Ala Thr Ala Gly Pro Glu Glu Ala Ala Leu
 20 25 30

Pro Pro Glu Gln Ser Arg Val Gln Pro Met Thr Ala Ser Asn Trp Thr
 35 40 45

Leu Val Met Glu Gly Glu Trp Met Leu Lys Phe Tyr Ala Pro Trp Cys
 50 55 60

Pro Ser Cys Gln Gln Thr Asp Ser Glu Trp Glu Ala Phe Ala Lys Asn
 65 70 75 80

Gly Glu Ile Leu Gln Ile Ser Val Gly Lys Val Asp Val Ile Gln Glu
 85 90 95

Pro Gly Leu Ser Gly Arg Phe Phe Val Thr Thr Leu Pro Ala Phe Phe
 100 105 110

His Ala Lys Asp Gly Ile Phe Arg Arg Tyr Arg Gly Pro Gly Ile Phe
 115 120 125

Glu Asp Leu Gln Asn Tyr Ile Leu Glu Lys Lys Trp Gln Ser Val Glu
 130 135 140
 Pro Leu Thr Gly Trp Lys Ser Pro Ala Ser Leu Thr Met Ser Gly Met
 145 150 155 160
 Ala Gly Leu Phe Ser Ile Ser Gly Lys Ile Trp His Leu His Asn Tyr
 165 170 175
 Phe Thr Val Thr Leu Gly Ile Pro Ala Trp Cys Ser Tyr Val Phe Phe
 180 185 190
 Val Ile Ala Thr Leu Val Phe Gly Leu Phe Met Gly Leu Val Leu Val
 195 200 205
 Val Ile Ser Glu Cys Phe Tyr Val Pro Leu Pro Arg His Leu Ser Glu
 210 215 220
 Arg Ser Glu Gln Asn Arg Arg Ser Glu Glu Ala His Arg Ala Glu Gln
 225 230 235 240
 Leu Gln Asp Ala Glu Glu Glu Lys Asp Asp Ser Asn Glu Glu Glu Asn
 245 250 255
 Lys Asp Ser Leu Val Asp Asp Glu Glu Glu Lys Glu Asp Leu Gly Asp
 260 265 270
 Glu Asp Glu Ala Glu Glu Glu Glu Glu Glu Asp Asn Leu Ala Ala Gly
 275 280 285
 Val Asp Glu Glu Arg Ser Glu Ala Asn Asp Gln Gly Pro Pro Gly Glu
 290 295 300
 Asp Gly Val Thr Arg Glu Xaa Ser Arg Ala Xaa
 305 310 315

<210> 202

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (236)

<223> Xaa equals stop translation

<400> 202

Met Gly Thr Ala Asp Ser Asp Glu Met Ala Pro Glu Ala Pro Gln His
 1 5 10 15

Thr His Ile Asp Val His Ile His Gln Glu Ser Ala Leu Ala Lys Leu
 20 25 30

Leu Leu Thr Cys Cys Ser Ala Leu Arg Pro Arg Ala Thr Gln Ala Arg
 35 40 45

Gly Ser Ser Arg Leu Leu Val Ala Ser Trp Val Met Gln Ile Val Leu
 50 55 60

Gly Ile Leu Ser Ala Val Leu Gly Gly Phe Phe Tyr Ile Arg Asp Tyr

Leu Ser Thr Ser Xaa
85

<210> 207
 <211> 208
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 207
 Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Leu Leu Leu Met
 1 5 10 15
 Gln Phe Leu Cys His Glu Phe Leu Arg Xaa Asn Pro Arg Val Thr Arg
 20 25 30
 Leu Leu Ser Glu Met Arg Ile His Leu Leu Pro Ser Met Asn Pro Asp
 35 40 45
 Gly Tyr Glu Ile Ala Tyr His Arg Gly Ser Glu Leu Val Gly Trp Ala
 50 55 60
 Glu Gly Arg Trp Asn Asn Gln Ser Ile Asp Leu Asn His Asn Phe Ala
 65 70 75 80
 Xaa Leu Asn Thr Pro Leu Trp Glu Ala Gln Asp Asp Gly Lys Val Pro
 85 90 95
 His Ile Val Pro Asn His His Leu Pro Leu Pro Thr Tyr Tyr Thr Leu
 100 105 110
 Pro Asn Ala Thr Val Ala Pro Glu Thr Arg Ala Val Ile Lys Trp Met
 115 120 125
 Lys Arg Ile Pro Phe Val Leu Ser Ala Asn Leu His Gly Gly Glu Leu
 130 135 140
 Val Val Ser Tyr Pro Phe Asp Met Thr Arg Thr Pro Trp Ala Ala Arg
 145 150 155 160
 Glu Leu Thr Pro Thr Pro Asp Asp Ala Val Phe Arg Trp Leu Ser Thr
 165 170 175
 Val Tyr Ala Gly Ser Asn Leu Ala Met Gln Asp Thr Ser Arg Arg Pro
 180 185 190
 Cys His Ser Gln Asp Phe Ser Val His Gly Asn Ile Ile Asn Gly Ala
 195 200 205

<210> 208
 <211> 24

<212> PRT

<213> Homo sapiens

<400> 208

Met Glu Ile Ser Cys Leu Leu Leu Leu Ile Gln Asp Ser Asp Glu Met
 1 5 10 15

Glu Asp Gly Pro Gly Val Gln Asp
 20

<210> 209

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (483)

<223> Xaa equals stop translation

<400> 209

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln
 1 5 10 15

Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Xaa Ser Tyr Ile
 20 25 30

Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Lys Asp
 35 40 45

Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys
 50 55 60

Thr Gln Val Thr Lys Asn Lys Leu Gly Val Leu Ala Pro Ser Gln Leu
 65 70 75 80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro
 85 90 95

Ser Cys Phe Thr Asn Leu Trp Ala Leu Ile Asn Glu Ala Leu Leu His
 100 105 110

Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser
 115 120 125

His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly
 130 135 140

Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro
 145 150 155 160

Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu
 165 170 175

Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu
 180 185 190

Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala
 195 200 205
 Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp
 210 215 220
 Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro
 225 230 235 240
 Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu
 245 250 255
 Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His
 260 265 270
 Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro
 275 280 285
 His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln
 290 295 300
 Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu
 305 310 315 320
 Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp
 325 330 335
 Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu
 340 345 350
 Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro
 355 360 365
 Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
 370 375 380
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Phe Pro
 385 390 395 400
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
 405 410 415
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
 420 425 430
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
 435 440 445
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
 450 455 460
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
 465 470 475 480
 Pro His Xaa

<210> 210

<211> 13

<212> PRT

<213> Homo sapiens

<400> 210

Leu Glu Val Gly Cys Ile Gln Val Ala Pro Asp Thr Phe
1 5 10

<210> 211

<211> 20

<212> PRT

<213> Homo sapiens

<400> 211

Met Ser Leu Phe Phe Leu Leu Thr Leu Ile Ser Lys Leu His Gly Asp
1 5 10 15

Ala Glu Val Cys
20

<210> 212

<211> 55

<212> PRT

<213> Homo sapiens

<400> 212

Met Pro His Pro Pro Leu Pro Glu Thr Ser Leu Glu Ala Gln Leu Pro
1 5 10 15

Met Gly Leu Leu Gln Leu Leu Arg Cys Ser Val Gln Ala Trp Ser Pro
20 25 30

Pro Pro Ser Ser Phe Cys Pro Gly Ser Glu Pro Arg Ser Ala Ser Ala
35 40 45

His Trp Gly Tyr Trp Trp Pro
50 55

<210> 213

<211> 35

<212> PRT

<213> Homo sapiens

<400> 213

Asp Pro Glu Thr Arg Trp His His Gly Gly Ser Ala Gln Asn Gly Leu
1 5 10 15

Leu Met Leu Ile Ser Val Leu Gln Gln Pro Val Ile Gly Thr Gly Ser
20 25 30

Tyr Leu Cys
35

<210> 214

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 214

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
 1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
 20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
 35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
 50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
 65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
 85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
 115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
 130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
 145 150 155 160

Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu
 165 170 175

Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Xaa
 180 185 190

Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro
 195 200 205

Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu
 210 215 220

Pro Gly Leu Arg Asp Thr
 225 230

<210> 215

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals stop translation

<400> 215

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser

131

1

5

10

15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
145 150 155 160

Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu
165 170 175

Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala
180 185 190

Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro
195 200 205

Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu
210 215 220

Pro Gly Leu Arg Asp Thr Xaa
225 230

<210> 216

<211> 127

<212> PRT

<213> Homo sapiens

<400> 216

Met Gly Leu Thr Gly Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile
1 5 10 15

Leu Phe Phe Asp Lys Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val
20 25 30

Ala Gly Leu Ala Phe Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe
35 40 45

Phe Gln Lys His Lys Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val
50 55 60

Phe Val Val Leu Ile Gly Trp Pro Leu Ile Gly Met Ile Phe Glu Ile
65 70 75 80

Tyr Gly Phe Phe Leu Leu Phe Arg Gly Phe Phe Pro Val Val Val Gly
85 90 95

Phe Ile Arg Arg Val Pro Val Leu Gly Ser Leu Leu Asn Leu Pro Gly
100 105 110

Ile Arg Ser Phe Val Asp Lys Val Gly Glu Ser Asn Asn Met Val
115 120 125

<210> 217

<211> 47

<212> PRT

<213> Homo sapiens

<400> 217

Met Ile Arg Lys Leu His Lys Ile Ile Val Phe Ser Pro Arg Val Ile
1 5 10 15

Val Leu Leu Asn Cys Phe Phe Phe Ile Lys Ala Lys Phe Val Leu Tyr
20 25 30

Ile Phe Val Phe His Val Leu Asp Gly Ser Ile Ser Tyr Pro Val
35 40 45

<210> 218

<211> 41

<212> PRT

<213> Homo sapiens

<400> 218

Met Leu Leu Asn Gln His Phe Lys Ile Phe Gly Ser Leu Ile His Met
1 5 10 15

Asn Leu Leu Phe Ala Leu Ile Ser Leu Gly Ser Ser Asn Leu Ser Gly
20 25 30

Val Gln Phe Cys Cys Glu Thr Val Gln
35 40

<210> 219

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 219

Met Gln Pro Leu Asn Phe Ser Ser Thr Xaa Cys Ser Ser Phe Ser Pro
1 5 10 15

Pro Thr Thr Val Ile Leu Leu Ile Leu Leu Cys Phe Glu Gly Leu Leu
20 25 30

Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
35 40 45

Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Xaa Ser
 50 55 60
 Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
 65 70 75 80
 Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
 85 90 95
 Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
 100 105 110
 Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
 115 120 125
 Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala
 130 135

<210> 223

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 223

Met Leu Gly Cys Gly Ile Pro Ala Leu Gly Leu Leu Leu Leu Leu Gln
 1 5 10 15

Xaa Ser Ala Asp Gly Asn Gly Ile Gln Gly Phe Phe Tyr Pro Trp Ser
 20 25 30

Cys Glu Gly Asp Ile Trp Asp Arg Glu Ser Cys Gly Gly Gln Ala Ala
 35 40 45

Ile Arg
 50

<210> 224

<211> 15

<212> PRT

<213> Homo sapiens

<400> 224

Met Glu Ala Val Phe Thr Val Phe Phe Phe Leu Leu Phe Cys Phe
 1 5 10 15

<210> 225

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals stop translation

<400> 225

Met Gly Phe Gly Ala Thr Leu Ala Val Gly Leu Thr Ile Phe Val Leu
1 5 10 15

Ser Val Val Thr Ile Ile Ile Cys Phe Thr Cys Ser Cys Cys Cys Leu
20 25 30

Tyr Lys Thr Cys Arg Arg Pro Arg Pro Val Val Thr Thr Thr Thr Ser
35 40 45

Thr Thr Val Val His Ala Pro Tyr Pro Gln Pro Pro Ser Val Pro Pro
50 55 60

Ser Tyr Pro Gly Pro Ser Tyr Gln Gly Tyr His Thr Met Pro Pro Gln
65 70 75 80

Pro Gly Met Pro Ala Ala Pro Tyr Pro Met Gln Tyr Pro Pro Pro Tyr
85 90 95

Pro Ala Gln Pro Met Gly Pro Pro Ala Tyr His Glu Thr Leu Ala Gly
100 105 110

Gly Ala Ala Ala Pro Tyr Pro Ala Ser Gln Pro Pro Tyr Asn Pro Xaa
115 120 125

Tyr Met Asp Ala Pro Lys Xaa Xaa Ser Glu His Ser Leu Ala Ser Leu
130 135 140

Ala Ala Thr Trp Leu Cys Cys Val Cys Ala Xaa
145 150 155

<210> 226

<211> 10

<212> PRT

<213> Homo sapiens

<400> 226

Met Gly Phe Gly Ala Thr Leu Ala Val Gly
1 5 10

<210> 227

<211> 20

<212> PRT

135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000

<213> Homo sapiens

<400> 227

Met Ser Ile Phe Leu Val Met Ser Ile Ser Cys Ser Ser Thr Ser His
1 5 10 15

Cys Tyr Ser Phe
20

<210> 228

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals stop translation

<400> 228

Met Ser Phe Ser Phe Ile Ile Phe Leu Leu Leu Val Cys Gln Glu Ile
1 5 10 15

Thr Phe Cys Met Ser Tyr Gly Asp Ala Val Asn Cys Phe Ser Glu Cys
20 25 30

Phe Ser Asn Leu Gln Thr Ile Tyr Ile Ser Cys Leu Gln His Ala Val
35 40 45

Cys Lys His Ser Val Ile Trp Ser Ile Gln Leu Phe Val Arg Ala Leu
50 55 60

Pro Ile Ser Lys Cys Ala Glu Leu Ser Ile Asp Gly Ile Phe Arg Ser
65 70 75 80

Phe His Glu Asn Trp Lys Cys Ser Trp Val Ala Pro Thr Xaa
85 90

<210> 229

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals stop translation

<400> 229

Met Ser Phe Ser Phe Ile Ile Phe Leu Leu Leu Val Cys Gln Glu Ile
1 5 10 15

Thr Phe Cys Met Ser Tyr Gly Asp Ala Val Asn Cys Phe Ser Glu Cys
20 25 30

Phe Ser Asn Leu Gln Thr Ile Tyr Ile Ser Cys Leu Gln His Ala Val
35 40 45

Cys Lys His Ser Val Ile Trp Ser Ile Gln Leu Phe Val Arg Ala Leu
50 55 60

Pro Ile Ser Lys Cys Ala Glu Leu Ser Ile Asp Gly Ile Phe Arg Ser
65 70 75 80

Phe His Glu Asn Trp Lys Cys Ser Trp Val Ala Pro Thr Xaa
85 90

<210> 230

<211> 37

<212> PRT

<213> Homo sapiens

<400> 230

Met Gly Trp Ser Ala Gly Leu Leu Phe Leu Leu Ile Leu Tyr Leu Pro
1 5 10 15

Val Pro Gly Trp Met Glu Arg Glu Asp Gly Gly Asp Gly Thr Ser Phe
20 25 30

Thr Ser Gly Ser Trp
35

<210> 231

<211> 81

<212> PRT

<213> Homo sapiens

<400> 231

Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser
1 5 10 15

Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Leu Ala His Val Gln Thr
20 25 30

Pro Pro Arg Ile Ser Arg Met Ser Asp Val Asn Val Ser Ala Leu Pro
35 40 45

Ile Lys Lys Ile Leu Gly Ile Phe Ile Ile Arg Thr Tyr Leu Arg Lys
50 55 60

Ile Val Ile Ala Phe Met Leu Trp Ser Pro Cys Leu Cys Gly Gly Leu
65 70 75 80

Met

<210> 232

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 232

Met	Asp	Ala	Arg	Trp	Trp	Ala	Val	Val	Val	Leu	Ala	Ala	Phe	Pro	Ser
1				5					10					15	
Leu	Gly	Ala	Gly	Gly	Glu	Thr	Pro	Glu	Ala	Pro	Pro	Glu	Ser	Trp	Thr
			20					25					30		
Gln	Leu	Trp	Phe	Phe	Arg	Phe	Val	Val	Asn	Ala	Ala	Gly	Tyr	Ala	Xaa
		35					40					45			
Phe	Met	Val	Pro	Gly	Tyr	Leu	Leu	Val	Gln	Tyr	Phe	Arg	Arg	Lys	Asn
	50					55					60				
Tyr	Leu	Glu	Thr	Gly	Arg	Gly	Leu	Cys	Phe	Pro	Leu	Val	Lys	Ala	Cys
65					70					75					80
Val	Phe	Gly	Asn	Glu	Pro	Lys	Ala	Ser	Asp	Glu	Val	Pro	Leu	Ala	Pro
					85				90					95	
Arg	Thr	Glu	Ala	Ala	Glu	Thr	Thr	Pro	Met	Trp	Gln	Ala	Leu	Lys	Leu
			100					105					110		
Leu	Phe	Cys	Ala	Thr	Gly	Leu	Gln	Val	Ser	Tyr	Leu	Thr	Trp	Gly	Val
		115					120					125			
Leu	Gln	Glu	Arg	Val	Met	Thr	Arg	Ser	Tyr	Gly	Ala	Thr	Ala	Thr	Ser
	130						135				140				
Pro	Gly	Glu	Arg	Phe	Thr	Asp	Ser	Gln	Phe	Leu	Val	Leu	Met	Asn	Arg
145					150					155					160
Val	Leu	Ala	Leu	Ile	Val	Ala	Gly	Leu	Ser	Cys	Val	Leu	Cys	Lys	Gln
				165				170						175	
Pro	Arg	His	Gly	Ala	Pro	Met	Tyr	Arg	Tyr	Ser	Phe	Ala	Ser	Leu	Ser
			180					185					190		
Asn	Val	Leu	Ser	Ser	Trp	Cys	Gln	Tyr	Glu	Ala	Leu	Lys	Phe	Val	Ser
		195					200					205			
Phe	Pro	Thr	Gln	Val	Leu	Ala	Lys	Ala	Ser	Lys	Val	Ile	Pro	Val	Met
	210					215					220				
Leu	Met	Gly	Lys	Leu	Val	Ser	Arg	Arg	Xaa	Asn	Glu	His	Trp	Glu	Tyr
225					230					235					240
Leu	Thr	Ala	Thr	Leu	Ile	Ser	Ile	Gly	Val	Ser	Met	Phe	Leu	Leu	Ser
				245					250					255	
Ser	Gly	Pro	Glu	Pro	Arg	Ser	Ser	Pro	Ala	Thr	Thr	Leu	Ser	Gly	Leu
			260					265					270		
Ile	Leu	Leu	Ala	Gly	Tyr	Ile	Ala	Phe	Asp	Ser	Phe	Thr	Ser	Asn	Trp
		275					280					285			
Gln	Asp	Ala	Cys	Leu	Pro	Ile	Arg	Cys	His	Arg	Cys	Arg			
	290						295				300				

<210> 233

<400> 233															
Met 1	Ser	Asp	Leu	Leu 5	Leu	Leu	Gly	Leu	Ile 10	Gly	Gly	Leu	Thr	Leu 15	
Leu	Leu	Leu	Thr 20	Leu	Leu	Ala	Phe	Ala 25	Gly	Tyr	Ser	Gly	Leu 30	Leu	Ala
Gly	Val	Glu 35	Val	Ser	Ala	Gly	Ser 40	Pro	Pro	Ile	Arg	Asn 45	Val	Thr	Val
Ala	Tyr 50	Lys	Phe	His	Met	Gly 55	Leu	Tyr	Gly	Glu	Thr 60	Gly	Arg	Leu	Phe
Thr 65	Glu	Ser	Cys	Ser	Ile 70	Ser	Pro	Lys	Leu	Arg 75	Ser	Ile	Ala	Val	Tyr 80
Tyr	Asp	Asn	Pro	His 85	Met	Val	Pro	Pro	Asp 90	Lys	Cys	Arg	Cys	Ala 95	Val
Gly	Ser	Ile	Leu 100	Ser	Glu	Gly	Glu	Glu 105	Ser	Pro	Ser	Pro	Glu	Leu	Ile
Asp	Leu	Tyr 115	Gln	Lys	Phe	Gly	Phe 120	Lys	Val	Phe	Ser 125	Phe	Pro	Ala	Pro
Ser 130	His	Val	Val	Thr	Ala	Thr 135	Phe	Pro	Tyr	Thr	Thr 140	Ile	Leu	Ser	Ile
Trp 145	Leu	Ala	Thr	Arg	Arg 150	Val	His	Pro	Ala	Leu 155	Asp	Thr	Tyr	Ile	Lys 160
Glu	Arg	Lys	Leu	Cys 165	Ala	Tyr	Pro	Arg	Leu 170	Glu	Ile	Tyr	Gln	Glu	Asp 175
Gln	Ile	His	Phe 180	Met	Cys	Pro	Leu	Ala 185	Xaa	Gln	Gly	Asp	Phe	Tyr	Val
Pro	Glu 195	Met	Lys	Glu	Thr	Glu	Trp 200	Lys	Trp	Arg	Gly	Leu 205	Val	Glu	Ala
Ile 210	Asp	Thr	Gln	Val	Asp	Gly 215	Thr	Gly	Ala	Asp	Thr 220	Met	Ser	Asp	Thr
Ser 225	Ser	Val	Ser	Leu	Glu 230	Val	Ser	Pro	Gly	Ser 235	Arg	Glu	Thr	Ser	Ala 240
Ala	Thr	Leu	Ser	Pro 245	Gly	Ala	Ser	Ser	Arg 250	Gly	Trp	Asp	Asp	Gly 255	Asp

Thr Arg Ser Glu His Ser Tyr Ser Glu Ser Gly Ala Ser Gly Ser Ser
 260 265 270

Phe Glu Glu Leu Asp Leu Glu Gly Glu Gly Pro Leu Gly Glu Ser Arg
 275 280 285

Leu Asp Pro Gly Thr Xaa Pro Leu Gly Thr Thr Lys Trp Leu Trp Glu
 290 295 300

Pro Thr Ala Pro Glu Lys Gly Lys Glu
 305 310

<210> 234

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 234

Pro Gln Ser Leu Ile Leu His Leu Leu Leu Phe Phe Phe Leu Leu Phe
 1 5 10 15

Leu Phe Phe Ile Phe Ile Phe Leu Phe Phe Leu Gln Cys Leu Thr Phe
 20 25 30

Leu Phe Xaa Lys Pro Arg Gly Arg Tyr His Gly Leu Cys Phe Lys Phe
 35 40 45

<210> 235

<211> 34

<212> PRT

<213> Homo sapiens

<400> 235

Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp Leu
 1 5 10 15

Cys Cys Ala Thr Pro Arg Met His Cys Ser Val Glu Met Ala Met Asn
 20 25 30

Pro Val

<210> 236

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236

Met Thr Arg Gly Gly Pro Gly Gly Arg Pro Gly Leu Pro Gln Pro Pro
1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Leu Xaa Leu Leu Leu Val Thr Ala Glu
20 25 30

Pro Pro Lys Pro Ala Gly Val Tyr Tyr Ala Thr Ala Tyr Trp Met Pro
35 40 45

Ala Glu Lys Thr Val Gln Val Lys Asn Val Met Asp Lys Asn Gly Asp
50 55 60

Ala Tyr Gly Phe Tyr Asn Asn Ser Val Lys Thr Thr Gly Trp Gly Ile
65 70 75 80

Leu Glu Ile Arg Ala Gly Tyr Gly Ser Gln Thr Leu Ser Asn Glu Ile
85 90 95

Ile Met Phe Val Ala Gly Phe Leu Glu Gly Tyr Leu Thr Ala Pro His
100 105 110

Met Asn Asp His Tyr Thr Asn Leu Tyr Pro Gln Leu Ile Thr Lys Pro
115 120 125

Ser Ile Met Asp Lys Val Gln Asp Phe Met Glu Lys Gln Asp Lys Trp
130 135 140

Thr Arg Lys Asn Ile Lys Glu Tyr Lys Thr Asp Ser Phe Trp Arg His
145 150 155 160

Thr Gly Tyr Val Met Ala Gln Ile Asp Gly Leu Tyr Val Gly Ala Lys
165 170 175

Lys Arg Ala Ile Leu Glu Gly Thr Lys Pro Met Thr Leu Phe Gln Ile
180 185 190

Gln Phe Leu Asn Ser Val Gly Asp Leu Leu Asp Leu Ile Pro Ser Leu
195 200 205

Ser Pro Thr Lys Asn Gly Ser Leu Lys Val Phe Lys Arg Trp Asp Met
210 215 220

Gly His Cys Ser Ala Leu Ile Lys Val Leu Pro Gly Phe Glu Asn Ile
225 230 235 240

Leu Phe Ala His Ser Ser Trp Tyr Thr Tyr Ala Ala Met Leu Arg Ile
245 250 255

Tyr Lys His Trp Asp Phe Asn Xaa Ile Asp Lys Asp Thr Ser Ser Ser
260 265 270

Arg Leu Ser Phe Ser Ser Tyr Pro Gly Phe Leu Glu Ser Leu Asp Asp
275 280 285

Phe Tyr Ile Leu Ser Ser Gly Leu Ile Leu Leu Gln Thr Thr Asn Ser
 290 295 300

Val Phe Asn Lys Thr Leu Leu Lys Gln
 305 310

<210> 237

<211> 296

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals stop translation

<400> 237

Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala Ser His
 1 5 10 15

Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln Pro Asp
 20 25 30

Phe Ser Tyr Lys Arg Xaa Asn Cys Lys Pro Ile Pro Val Asn Leu Gln
 35 40 45

Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn Leu Leu
 50 55 60

Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala Trp Ile
 65 70 75 80

Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe Leu Cys
 85 90 95

Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr Ile Gln
 100 105 110

Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala Pro Val
 115 120 125

Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys Asp Arg
 130 135 140

Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser Asp His
 145 150 155 160

Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala Cys Lys
 165 170 175

Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys Lys Asn
 180 185 190

Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile Asn Arg
 195 200 205

143

Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr Lys Leu
210 215 220

Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp Leu Lys
225 230 235 240

Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn Ala Pro
245 250 255

Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile Thr Ser
260 265 270

Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile Ser Arg
275 280 285

Ser Ile Arg Lys Leu Gln Cys Xaa
290 295

<210> 238

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 238

Met Ala Ser Leu Gly His Ile Leu Val Phe Cys Val Gly Leu Leu Thr
1 5 10 15

Met Ala Lys Ala Glu Ser Pro Lys Glu His Asp Pro Phe Thr Tyr Asp
20 25 30

Tyr Gln Ser Leu Gln Ile Gly Gly Leu Val Ile Ala Gly Ile Leu Phe
35 40 45

Ile Leu Gly Ile Leu Ile Val Leu Ser Arg Arg Cys Arg Cys Lys Phe
50 55 60

Asn Gln Gln Gln Arg Thr Gly Glu Pro Asp Glu Glu Glu Gly Thr Phe
65 70 75 80

Arg Ser Ser Ile Arg Arg Leu Ser Xaa Arg Xaa Arg
85 90

<210> 239

<211> 71

<212> PRT

<213> Homo sapiens

<400> 239

Met Pro Gly Thr Phe Leu Arg Pro Phe Val Phe Leu Phe Leu Phe Ile
1 5 10 15

Cys Cys Cys Leu His Ser Gly Gly Leu Gly Gly Val Pro Leu Pro Pro
 20 25 30
 Phe Pro Pro Gln Ala Gln Arg Gly Glu Gly Pro Gly Lys Trp Met Ser
 35 40 45
 Pro Pro Leu Pro Pro His Pro Val Val Ala Pro Pro Thr Pro Ser Pro
 50 55 60
 Ser Arg Gly Cys Val Leu Leu
 65 70

<210> 240
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 240
 Met Pro Gly Thr Phe Leu Arg Pro Phe Val Phe Leu Phe Leu Phe Ile
 1 5 10 15
 Cys Cys Cys Leu His Ser Gly Gly Leu Gly Gly Val Pro Leu Pro Pro
 20 25 30
 Phe Pro Pro Gln Ala Gln Arg Gly Glu Gly Pro Gly Lys Trp Met Ser
 35 40 45
 Pro Pro Leu Pro Pro His Pro Val Val Ala Pro Pro Thr Pro Ser Pro
 50 55 60
 Ser Arg Gly Cys Val Leu Leu
 65 70

<210> 241
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 241
 Met Phe Tyr Val Leu Ser Val Ser Xaa Leu Xaa Leu Phe Leu Ala Cys
 1 5 10 15
 Gly Leu Cys Leu Xaa Leu Leu Thr Gly Lys Leu Leu
 20 25

<210> 242
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 242
 Met Lys Leu Phe Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly
 1 5 10 15
 His Ile Leu Ala Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu
 20 25 30
 Gly Pro Gly Trp Val Pro Ser Ala Leu Xaa Arg Leu His Pro Gly His
 35 40 45
 Leu Ser Gly Ser Val Leu Val Ser Ala Ala
 50 55

<210> 243
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 243
 Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val
 1 5 10 15
 Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr
 20 25 30
 Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile
 35 40 45
 Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe Pro
 50 55 60
 Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys
 65 70 75 80
 Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr Pro
 85 90 95
 Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile Asn
 100 105 110
 Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
 115 120

<210> 244
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 244
 Ala Leu Val Ser Gly Gln Leu Cys Met Glu Ile Ala Arg Gly Asn Ile
 1 5 10 15

 Phe Phe Leu Asn Xaa Leu Val Thr Thr Phe Cys Cys Ser Cys Leu Leu
 20 25 30

 Leu Ser Val Xaa Tyr Leu His Xaa Gly Phe Phe Tyr Ser Ser Leu Cys
 35 40 45

 Lys Cys Cys Phe Val Leu Val Val Leu Ser Arg Ile Gly Ser Val Asn
 50 55 60

 Glu Thr Trp Ser Cys Asn Phe Ser Ile
 65 70

 <210> 245
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 245
 Thr Pro Ala Thr Thr Ser Ser Ser Ser Ser Pro Leu Phe Leu Ser Ser
 1 5 10 15

 Pro Asp Trp Ser Ser Cys Pro Ser Gly Ser Cys Ile Ala Pro Trp Cys
 20 25 30

 Thr His Trp Ser Ser Ile Leu Pro Ser Leu Xaa Ile Thr Ser Ser Ile
 35 40 45

 Pro

 <210> 246
 <211> 339
 <212> PRT
 <213> Homo sapiens

 <220>

<221> SITE

<222> (339)

<223> Xaa equals stop translation

<400> 246

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Met Ala Arg Val Pro Pro Leu Ser Ser Ser Trp Thr Ser Ser Arg Tyr
  1              5              10              15

Arg Arg Trp Leu Cys Cys Pro Val Trp Trp Thr Thr Phe Trp Ala Thr
      20              25              30

Ala Trp Ser Leu Thr Lys His Leu Tyr Lys Asp Val Thr Asp Ala Ile
      35              40              45

Arg Asp Val His Val Lys Gly Leu Met Tyr Gln Trp Ile Glu Gln Asp
      50              55              60

Met Glu Lys Tyr Ile Leu Arg Gly Asp Glu Thr Phe Ala Val Leu Ser
      65              70              75              80

Arg Leu Val Ala His Gly Lys Gln Leu Phe Leu Ile Thr Asn Ser Pro
      85              90              95

Phe Ser Phe Val Asp Lys Gly Met Arg His Met Val Gly Pro Asp Trp
      100             105             110

Arg His Ser Ser Met Trp Ser Leu Ser Arg Gln Thr Ser Pro Ala Ser
      115             120             125

Ser Leu Thr Gly Ala Thr Phe Arg Lys Leu Asp Glu Lys Gly Ser Leu
      130             135             140

Gln Trp Asp Arg Ile Thr Arg Leu Glu Lys Gly Lys Ile Tyr Arg Gln
      145             150             155             160

Gly Asn Leu Phe Asp Phe Leu Arg Leu Thr Glu Trp Arg Gly Pro Arg
      165             170             175

Val Leu Tyr Phe Gly Asp His Leu Tyr Ser Asp Leu Ala Asp Leu Met
      180             185             190

Leu Arg His Gly Trp Arg Thr Gly Ala Ile Ile Pro Glu Leu Glu Arg
      195             200             205

Glu Ile Arg Ile Ile Asn Thr Glu Gln Tyr Met His Ser Leu Thr Trp
      210             215             220

Gln Gln Ala Leu Thr Gly Leu Leu Glu Arg Met Gln Thr Tyr Gln Asp
      225             230             235             240

Ala Glu Ser Arg Gln Val Leu Ala Ala Trp Met Lys Glu Arg Gln Glu
      245             250             255

Leu Arg Cys Ile Thr Lys Ala Leu Phe Asn Ala Gln Phe Gly Ser Ile
      260             265             270

Phe Arg Thr Phe His Asn Pro Thr Tyr Phe Ser Arg Arg Leu Val Arg
      275             280             285

Phe Ser Asp Leu Tyr Met Ala Ser Leu Ser Cys Leu Leu Asn Tyr Arg
      290             295             300

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Val Asp Phe Thr Phe Tyr Pro Arg Arg Thr Pro Leu Gln His Glu Ala
305 310 315 320

Pro Leu Trp Met Asp Gln Leu Leu His Arg Leu His Glu Asp Pro Leu
325 330 335

Pro Trp Xaa

<210> 247

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 247

Met Ala Leu Leu Ser Cys Val Val Asp Tyr Phe Leu Gly His Ser Leu
1 5 10 15

Xaa Val

<210> 248

<211> 339

<212> PRT

<213> Homo sapiens

<400> 248

Met Asn Trp Glu Leu Leu Leu Trp Leu Leu Val Leu Cys Ala Leu Leu
1 5 10 15

Leu Leu Leu Val Gln Leu Leu Arg Phe Leu Arg Ala Asp Gly Asp Leu
20 25 30

Thr Leu Leu Trp Ala Glu Trp Gln Gly Arg Arg Pro Glu Trp Glu Leu
35 40 45

Thr Asp Met Val Val Trp Val Thr Gly Ala Ser Ser Gly Ile Gly Glu
50 55 60

Glu Leu Ala Tyr Gln Leu Ser Lys Leu Gly Val Ser Leu Val Leu Ser
65 70 75 80

Ala Arg Arg Val His Glu Leu Glu Arg Val Lys Arg Arg Cys Leu Glu
85 90 95

Asn Gly Asn Leu Lys Glu Lys Asp Ile Leu Val Leu Pro Leu Asp Leu
100 105 110

Thr Asp Thr Gly Ser His Glu Ala Ala Thr Lys Ala Val Leu Gln Glu
115 120 125

Phe Gly Arg Ile Asp Ile Leu Val Asn Asn Gly Gly Met Ser Gln Arg
130 135 140

Ser Leu Cys Met Asp Thr Ser Leu Asp Val Tyr Arg Lys Leu Ile Glu

150

Ala Leu Leu Asn Leu Gly Thr Gln Pro Lys Lys Asp Lys Lys Leu Glu
65 70 75 80

Asp Ser Ile Ala Thr Gln Leu Arg Xaa Leu Pro Glu Lys Asn Ser Asn
85 90 95

<210> 250

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 250

Met Ala Leu Thr Phe Leu Leu Val Leu Leu Thr Leu Ala Thr Leu Cys
1 5 10 15

Thr Arg Leu His Arg Asn Phe Arg Arg Gly Glu Ser Ile Tyr Trp Gly
20 25 30

Pro Thr Ala Asp Ser Gln Asp Thr Val Ala Ala Val Leu Lys Arg Arg
35 40 45

Leu Leu Gln Pro Ser Arg Arg Val Lys Arg Ser Arg Arg Arg Pro Xaa
50 55 60

Xaa Pro Pro Thr Pro Asp Ser Gly Pro Glu Gly Glu Ser Ser Glu
65 70 75

<210> 251

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 251

Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser
1 5 10 15

Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg
20 25 30

Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser
35 40 45

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151

Ser Arg His Ala Ala Glu Leu Arg Asp Phe Lys Asn Lys Met Leu Pro
50 55 60

Leu Leu Glu Val Ala Glu Lys Glu Arg Glu Ala Leu Arg Thr Glu Ala
65 70 75 80

Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr
85 90 95

Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys
100 105 110

Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys
115 120 125

Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser
130 135 140

Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys
145 150 155 160

Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln
165 170 175

Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala
180 185 190

Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val
195 200 205

Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg
210 215 220

Pro Pro Gly Arg Pro Gly Gly Gly Gly Glu Met Glu Asn Thr Leu Gln
225 230 235 240

Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val
245 250 255

Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr
260 265 270

Tyr Ile Asp Leu Ala Ala Asp Glu Glu Gly Leu Trp Ala Val Tyr Ala
275 280 285

Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln
290 295 300

Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn
305 310 315 320

Ala Glu Ala Ala Phe Xaa Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn
325 330 335

Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser
340 345 350

Gly Pro

<210> 252

<211> 109
 <212> PRT
 <213> Homo sapiens

<400> 252
 Met Leu Cys Ile Asn Gly Thr Thr Pro Arg Pro Leu Pro Val Pro Ser
 1 5 10 15
 Pro Phe Gly Cys Met Ile Phe Phe Phe Phe Lys Asn Pro Trp Lys Gln
 20 25 30
 Arg Leu Leu Gln Gly Trp Leu Gly Ala Arg Pro Ile His Leu Leu Gly
 35 40 45
 Tyr Leu Pro Leu Ser Leu Leu Trp Cys Pro Phe Pro Leu Pro Cys Ala
 50 55 60
 Arg Cys Ser Val Val Tyr Ile Ser Ser Pro Arg His Gly Ala His Ala
 65 70 75 80
 Pro Arg Asp Met Ile Leu Ser Leu Val Leu Ala His Gly Ala Leu Tyr
 85 90 95
 Lys Glu Leu Gly Gly Arg Gly Arg Lys Trp Glu Pro Ser
 100 105

<210> 253
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 253
 Met Phe Tyr Phe Leu Pro Leu Ile Phe Pro Ala Phe Pro Pro Trp Ala
 1 5 10 15
 Phe Arg Leu Ser Thr Leu Phe Thr Ile Ile Ser Trp Ser Glu Asp Ser
 20 25 30
 Asn Asn Ser Gln Val Tyr Met Asn Cys Val Cys Ser Phe
 35 40 45

<210> 254
 <211> 315
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (311)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (315)
 <223> Xaa equals stop translation

<400> 254

Met	Ala	Gly	Gly	Arg	Cys	Gly	Pro	Xaa	Leu	Thr	Ala	Leu	Leu	Ala	Ala
1				5					10					15	
Trp	Ile	Ala	Ala	Val	Ala	Ala	Thr	Ala	Gly	Pro	Glu	Glu	Ala	Ala	Leu
			20					25					30		
Pro	Pro	Glu	Gln	Ser	Arg	Val	Gln	Pro	Met	Thr	Ala	Ser	Asn	Trp	Thr
		35					40					45			
Leu	Val	Met	Glu	Gly	Glu	Trp	Met	Leu	Lys	Phe	Tyr	Ala	Pro	Trp	Cys
	50					55					60				
Pro	Ser	Cys	Gln	Gln	Thr	Asp	Ser	Glu	Trp	Glu	Ala	Phe	Ala	Lys	Asn
65					70					75					80
Gly	Glu	Ile	Leu	Gln	Ile	Ser	Val	Gly	Lys	Val	Asp	Val	Ile	Gln	Glu
				85					90					95	
Pro	Gly	Leu	Ser	Gly	Arg	Phe	Phe	Val	Thr	Thr	Leu	Pro	Ala	Phe	Phe
		100						105					110		
His	Ala	Lys	Asp	Gly	Ile	Phe	Arg	Arg	Tyr	Arg	Gly	Pro	Gly	Ile	Phe
		115					120					125			
Glu	Asp	Leu	Gln	Asn	Tyr	Ile	Leu	Glu	Lys	Lys	Trp	Gln	Ser	Val	Glu
	130						135				140				
Pro	Leu	Thr	Gly	Trp	Lys	Ser	Pro	Ala	Ser	Leu	Thr	Met	Ser	Gly	Met
145					150					155					160
Ala	Gly	Leu	Phe	Ser	Ile	Ser	Gly	Lys	Ile	Trp	His	Leu	His	Asn	Tyr
			165						170					175	
Phe	Thr	Val	Thr	Leu	Gly	Ile	Pro	Ala	Trp	Cys	Ser	Tyr	Val	Phe	Phe
			180					185					190		
Val	Ile	Ala	Thr	Leu	Val	Phe	Gly	Leu	Phe	Met	Gly	Leu	Val	Leu	Val
		195					200					205			
Val	Ile	Ser	Glu	Cys	Phe	Tyr	Val	Pro	Leu	Pro	Arg	His	Leu	Ser	Glu
	210					215					220				
Arg	Ser	Glu	Gln	Asn	Arg	Arg	Ser	Glu	Glu	Ala	His	Arg	Ala	Glu	Gln
225				230						235					240
Leu	Gln	Asp	Ala	Glu	Glu	Glu	Lys	Asp	Asp	Ser	Asn	Glu	Glu	Glu	Asn
			245						250					255	
Lys	Asp	Ser	Leu	Val	Asp	Asp	Glu	Glu	Glu	Lys	Glu	Asp	Leu	Gly	Asp
			260					265					270		
Glu	Asp	Glu	Ala	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Asn	Leu	Ala	Ala	Gly
		275					280					285			
Val	Asp	Glu	Glu	Arg	Ser	Glu	Ala	Asn	Asp	Gln	Gly	Pro	Pro	Gly	Glu
	290					295					300				
Asp	Gly	Val	Thr	Arg	Glu	Xaa	Ser	Arg	Ala	Xaa					
305					310					315					

<210> 255
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 255
 Met Leu Lys Ala Leu Phe Arg Thr Leu Gln Ala Met Leu Leu Gly Val
 1 5 10 15
 Trp Ile Leu Leu Leu Leu Ala Ser Leu Ala Pro Leu Trp Leu Tyr Cys
 20 25 30
 Trp Arg Met Phe Pro Thr Lys Gly Lys Arg Asp Gln Lys Glu Met Leu
 35 40 45
 Glu Val Ser Gly Ile
 50

<210> 256
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals stop translation

<400> 256
 Met Ile His Leu Gly His Ile Leu Phe Leu Leu Leu Leu Pro Val Ala
 1 5 10 15
 Ala Ala Gln Thr Thr Pro Gly Glu Arg Ser Ser Leu Pro Ala Phe Tyr
 20 25 30
 Pro Gly Thr Ser Gly Ser Cys Ser Gly Cys Gly Ser Leu Ser Leu Pro
 35 40 45
 Leu Leu Ala Gly Leu Val Ala Ala Asp Ala Val Ala Ser Leu Leu Ile
 50 55 60
 Val Gly Ala Val Phe Leu Cys Ala Arg Pro Arg Arg Ser Pro Ala Gln
 65 70 75 80
 Asp Gly Lys Val Tyr Ile Asn Met Pro Gly Arg Gly Xaa
 85 90

<210> 257
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 257
 Pro Gly His Leu Leu Pro His Lys Trp Glu Asn Cys
 1 5 10

<210> 258
 <211> 1852

<212> DNA

<213> Homo sapiens

<400> 258

TGGCATCTGT	GAGCAGCTGC	CAGGCTCCGG	CCAGGATCCC	TTCCTTCTCC	TCATTGGCTG	60
ATGGATCCCA	AGGGGCTCCT	CTCCTTGACC	TTCGTGCTGT	TTCTCTCCCT	GGCTTTTGGG	120
GCAAGCTACG	GAACAGGTGG	GCGCATGATG	AACTGCCCAA	AGATTCTCCG	GCAGTTGGGA	180
AGCAAAGTGC	TGCTGCCCCCT	GACATATGAA	AGGATAAATA	AGAGCATGAA	CAAAAGCATC	240
CACATTGTCT	TCACAATGGC	AAAATCACTG	GAGAACAGTG	TCGAGAACAA	AATAGTGTCT	300
CTTGATCCAT	CCGAAGCAGG	CCCTCCACGT	TATCTAGGAG	ATCGCTACAA	GTTTTATCTG	360
GAGAATCTCA	CCCTGGGGAT	ACGGGAAAGC	AGGAAGGAGG	ATGAGGGATG	GTACCTTATG	420
ACCCTGGAGA	AAAATGTTTC	AGTTCAGCGC	TTTTGCCTGC	AGTTGAGGCT	TTATGAGCAG	480
GTCTCCACTC	CAGAAATTAA	AGTTTTTAAAC	AAGACCCAGG	AGAACGGGAC	CTGCACCTTG	540
ATACTGGGCT	GCACAGTGGA	GAAGGGGGAC	CATGTGGCTT	ACAGCTGGAG	TGAAAAGGCG	600
GGCACCCACC	CACTGAACCC	AGCCAACAGC	TCCCACCTCC	TGTCCCTCAC	CCTCGGCCCC	660
CAGCATGCTG	ACAATATCTA	CATCTGCACC	GTGAGCAACC	CTATCAGCAA	CAATTCCCAG	720
ACCTTCAGCC	CGTGGCCCGG	ATGCAGGACA	GACCCCTCAG	AAACAAAACC	ATGGGCAGTG	780
TATGCTGGGC	TGTTAGGGGG	TGTCATCATG	ATTCTCATCA	TGGTGTAAT	ACTACAGTTG	840
AGAAGAAGAG	GTAAAACGAA	CCATTACCAG	ACAACAGTGG	AAAAAAAAAAG	CCTTACGATC	900
TATGCCCAAG	TCCAGAAACC	AGGTGACACT	CATCATCAGA	CTTCGGACTT	ATTCTAATCC	960
AGGATGACCT	TATTTTGAAA	TCCTTATCTT	GACATCTGTG	AAGACCTTTA	TTCAAATAAA	1020
GTCACATTTT	GACATTCTGC	GAGGGGCTGG	AGCCGGGCCG	GGGCGATGTG	GAGCGCGGGC	1080
CGCGGCGGGG	CTGCCTGGCC	GGTGCTGTTG	GGGCTGCTGC	TGGCGCTGTT	AGTGCCGGGC	1140
GGTGGTGCCG	CCAAGACCGG	TGCGGAGCTC	GTGACTGCGG	GTCGGTGCTG	AAGCTGCTCA	1200
ATACGCACCA	CCGGTGCGGC	TGCACTCGCA	CGACATCAAA	TACGGATCCG	GCAGCGGCCA	1260
GCAATCGGTG	ACCGGCGTAG	AGGTCGGAGC	GACGAATAGC	TACTGGCGGA	TCCGCGGCGG	1320
CTCGGAGGGG	GGTGCCCGCG	CGGGTCCCCG	GTGCGCTGCG	GGCAGGCGGT	GAGGTCACAC	1380
ATGTGCTTAC	GGGCAAGAAC	CTGCACACGC	ACCACTTCCC	GTCGCCGCTG	TCCAACAACC	1440
AGGAAGTGAG	TGCCAAAGGG	GAAGACGGCG	AGGGCGACGA	CCTGGACCTA	TGGACAGTGC	1500
GCTGCTCTGC	TCTGGACAGC	ACTGGGAGCG	TGAGGCTGCT	GTGGCGCCTT	CCAGCATGTG	1560
GCACCTCTGT	GGTTCCTGTC	AGTCACGGTA	GCAGTATGGA	AGCCCCATCC	GTGGGCAGCA	1620
TGAGGTCCAC	GCATGCCCAG	TGCCAACACG	CACAATACGT	GGAAGGCCAT	GGAAGGCATC	1680
TTCATCAAGC	CTAGTGTGGA	GCCCTCTGCA	GGTCACGATG	AACTCTGAGT	GTGTGGATGG	1740

ATGGGTGGAT GGAGGGTGGC AGGTGGGGCG TCTGCAGGC CACTCTTGGC AGAGACTTTG 1800

GGTTTGTAGG GGTCTCAAG TGCCTTTGTG ATTAAAGAAT GTTGGTCTAT GA 1852

<210> 259

<211> 371

<212> PRT

<213> Homo sapiens

<400> 259

Met Glu Leu Glu Leu Asp Ala Gly Asp Gln Asp Leu Leu Ala Phe Leu
1 5 10 15

Leu Glu Glu Ser Gly Asp Leu Gly Thr Ala Pro Asp Glu Ala Val Arg
20 25 30

Ala Pro Leu Asp Trp Ala Leu Pro Leu Ser Glu Val Pro Ser Asp Trp
35 40 45

Glu Val Asp Asp Leu Leu Cys Ser Leu Leu Ser Pro Pro Ala Ser Leu
50 55 60

Asn Ile Leu Ser Ser Ser Asn Pro Cys Leu Val His His Asp His Thr
65 70 75 80

Tyr Ser Leu Pro Arg Glu Thr Val Ser Met Asp Leu Glu Ser Glu Ser
85 90 95

Cys Arg Lys Glu Gly Thr Gln Met Thr Pro Gln His Met Glu Glu Leu
100 105 110

Ala Glu Gln Glu Ile Ala Arg Leu Val Leu Thr Asp Glu Glu Lys Ser
115 120 125

Leu Leu Glu Lys Glu Gly Leu Ile Leu Pro Glu Thr Leu Pro Leu Thr
130 135 140

Lys Thr Glu Glu Gln Ile Leu Lys Arg Val Arg Arg Lys Ile Arg Asn
145 150 155 160

Lys Arg Ser Ala Gln Glu Ser Arg Arg Lys Lys Lys Val Tyr Val Gly
165 170 175

Gly Leu Glu Ser Arg Val Leu Lys Tyr Thr Ala Gln Asn Met Glu Leu
180 185 190

Gln Asn Lys Val Gln Leu Leu Glu Glu Gln Asn Leu Ser Leu Leu Asp
195 200 205

Gln Leu Arg Lys Leu Gln Ala Met Val Ile Glu Ile Ser Asn Lys Thr
210 215 220

Ser Ser Ser Ser Thr Cys Ile Leu Val Leu Leu Val Ser Phe Cys Leu
225 230 235 240

Leu Leu Val Pro Ala Met Tyr Ser Ser Asp Thr Arg Gly Ser Leu Pro
245 250 255

Ala Glu His Gly Val Leu Ser Arg Gln Leu Arg Ala Leu Pro Ser Glu
260 265 270

1800
1852
259
371
PRT
Homo sapiens
259

Asp Pro Tyr Gln Leu Glu Leu Pro Ala Leu Gln Ser Glu Val Pro Lys
275 280 285

Asp Ser Thr His Gln Trp Leu Asp Gly Ser Asp Cys Val Leu Gln Ala
290 295 300

Pro Gly Asn Thr Ser Cys Leu Leu His Tyr Met Pro Gln Ala Pro Ser
305 310 315 320

Ala Glu Pro Pro Leu Glu Trp Pro Phe Pro Asp Leu Ser Ser Glu Pro
325 330 335

Leu Cys Arg Gly Pro Ile Leu Pro Leu Gln Ala Asn Leu Thr Arg Lys
340 345 350

Gly Gly Trp Leu Pro Thr Gly Ser Pro Ser Val Ile Leu Gln Asp Arg
355 360 365

Tyr Ser Gly
370

<210> 260

<211> 98

<212> PRT

<213> Homo sapiens

<400> 260

Asn Lys Arg Pro Thr Phe Leu Lys Ile Lys Lys Pro Leu Ser Tyr Arg
1 5 10 15

Lys Pro Met Asp Thr Asp Leu Val Tyr Ile Glu Lys Ser Pro Asn Tyr
20 25 30

Cys Glu Glu Asp Pro Val Thr Gly Ser Val Gly Thr Gln Gly Arg Ala
35 40 45

Cys Asn Lys Thr Ala Pro Gln Ala Ser Gly Cys Asp Leu Met Cys Cys
50 55 60

Gly Arg Gly Tyr Asn Thr His Gln Tyr Ala Arg Val Trp Gln Cys Asn
65 70 75 80

Cys Lys Phe His Trp Cys Cys Tyr Val Lys Cys Asn Thr Cys Ser Glu
85 90 95

Arg Thr

<210> 261

<211> 165

<212> PRT

<213> Homo sapiens

<400> 261

Ser Ala Glu Pro Ala Gly Thr Phe Leu Ile Arg Asp Ser Ser Asp Gln
1 5 10 15

Arg His Phe Phe Thr Leu Ser Val Lys Thr Gln Ser Gly Thr Lys Asn
20 25 30

Leu Arg Ile Gln Cys Glu Gly Gly Ser Phe Ser Leu Gln Ser Asp Pro
 35 40 45
 Arg Ser Thr Gln Pro Val Pro Arg Phe Asp Cys Val Leu Lys Leu Val
 50 55 60
 His His Tyr Met Pro Pro Pro Gly Ala Pro Ser Phe Pro Ser Pro Pro
 65 70 75 80
 Thr Glu Pro Ser Ser Glu Val Pro Glu Gln Pro Ser Ala Gln Pro Leu
 85 90 95
 Pro Gly Ser Pro Pro Arg Arg Ala Tyr Tyr Ile Tyr Ser Gly Gly Glu
 100 105 110
 Lys Ile Pro Leu Val Leu Ser Arg Pro Leu Ser Ser Asn Val Ala Thr
 115 120 125
 Leu Gln His Leu Cys Arg Lys Thr Val Asn Gly His Leu Asp Ser Tyr
 130 135 140
 Glu Lys Val Thr Gln Leu Pro Gly Pro Ile Arg Glu Phe Leu Asp Gln
 145 150 155 160
 Tyr Asp Ala Pro Leu
 165

<210> 262
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 262
 Met Val Thr His Ser Lys Phe Pro Ala Ala Gly Met Ser Arg Pro Leu
 1 5 10 15
 Asp Thr Ser Leu Arg Leu Lys Thr Phe Ser Ser Lys Ser Glu Tyr Gln
 20 25 30
 Leu Val Val Asn Ala Val Arg Lys
 35 40

<210> 263
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 263
 Gln Glu Ser Gly Phe Tyr Trp Ser Ala Val Thr Gly Gly Glu Ala Asn
 1 5 10 15
 Leu Leu Leu Ser Ala Glu Pro Ala Gly Thr Phe Leu Ile Arg Asp Ser
 20 25 30
 Ser

<210> 264

<211> 12
 <212> PRT
 <213> Homo sapiens

<400> 264
 Cys Arg Cys Ala Ser Gly Phe Thr Gly Glu Asp Cys
 1 5 10

<210> 265
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 265
 Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys
 1 5 10

<210> 266
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 266
 Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln Cys
 1 5 10

<210> 267
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 267
 Cys Lys Cys Leu Thr Gly Phe Thr Gly Gln Lys Cys
 1 5 10

<210> 268
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 268
 Cys Gln Cys Leu Gln Gly Phe Thr Gly Gln Tyr Cys
 1 5 10

<210> 269
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 269
 Pro Lys Glu His Asp Pro Phe Thr Tyr Asp Tyr Gln Ser Leu Gln Ile
 1 5 10 15

Gly Gly Leu Val Ile Ala Gly Ile Leu Phe Ile Leu Gly Ile Leu Ile
 20 25 30

Val Leu Ser Arg Arg Cys Arg Cys Lys Phe Asn Gln Gln Gln Arg Thr

160

35

40

45

Gly Glu Pro Asp Glu Glu Glu Gly Thr Phe Arg Ser Ser Ile Arg Arg
50 55 60

Leu Ser Thr Arg Arg Arg
65 70

<210> 270

<211> 65

<212> PRT

<213> Homo sapiens

<400> 270

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro
1 5 10 15

Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp
20 25 30

Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu
35 40 45

Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe
50 55 60

Asn
65

<210> 271

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 271

Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile Asp Arg Lys Arg
1 5 10 15

Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala Gln Thr Leu Leu
20 25 30

Thr Gln Asp Val Xaa Val Trp Val Phe Pro Glu Gly Thr Arg Asn His
35 40 45

Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe His Leu Ala Val
50 55 60

Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser Ser Tyr Gln Asp
65 70 75 80

Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly Gln Cys Gln Val
85 90 95

Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr Pro Asp Asp Val
100 105 110

Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu His Cys Phe
 115 120 125

<210> 272
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 272
 Pro Ser Ala Lys Tyr Phe Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile
 1 5 10 15

Leu Phe Leu Ala Val Leu Ala Ile Pro Val Cys Ala Val Arg Gly Arg
 20 25 30

Asn Val Glu Asn Met Lys Ile Leu Arg Leu Met Leu Leu His Ile Lys
 35 40 45

Tyr Leu Tyr Gly Ile Arg Val Glu Val Arg Gly Ala His His Phe Pro
 50 55 60

Pro Ser Gln Pro Tyr Val Val Val Ser Asn His Gln Ser Ser Leu Asp
 65 70 75 80

Leu Leu Gly Met Met Glu Val Leu Pro Gly Arg Cys Val Pro Ile Ala
 85 90 95

Lys Arg

<210> 273
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 273
 Thr Val Phe Arg Glu Ile Ser Thr Asp
 1 5

<210> 274
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 274
 Leu Trp Ala Gly Ser Ala Gly Trp Pro Ala Gly
 1 5 10

<210> 275
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 275
 Ser Ile Leu Gly Ile Ile Ser Val Pro Leu Ser Ile Gly Tyr Cys Ala
 1 5 10 15

Ser Lys His Ala Leu Arg Gly Phe Phe Asn Gly Leu Arg
 20 25

<210> 276
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 276
 Met Ala Tyr His Gly Leu Thr Val
 1 5

<210> 277
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 277
 Ile Ser Ala Ala Arg Val
 1 5

<210> 278
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 278
 Pro Asp Val Ser Glu Phe Met Thr Arg Leu Phe
 1 5 10

<210> 279
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 279
 Phe Asp Pro Val Arg Val Asp Ile Thr Ser Lys Gly Lys Met Arg Ala
 1 5 10 15

Arg

<210> 280
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 280
 Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu
 1 5 10 15

Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu
 20 25 30

Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu
 35 40 45

163

Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala
50 55 60

Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
65 70 75 80

Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
85 90 95

Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
100 105 110

Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
115 120 125

Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
130 135 140

Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
145 150 155 160

Leu Met Asn Pro Met Val Met Met
165

163-165